

Appendix K Utility Locations

K1: Utility Plans

K2: Utility Conflict Matrix

K3: Utility Protect in Place Matrix

K1: Utility Plans

X

Et. Culture®

DATE REVISED

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Et. Culture®

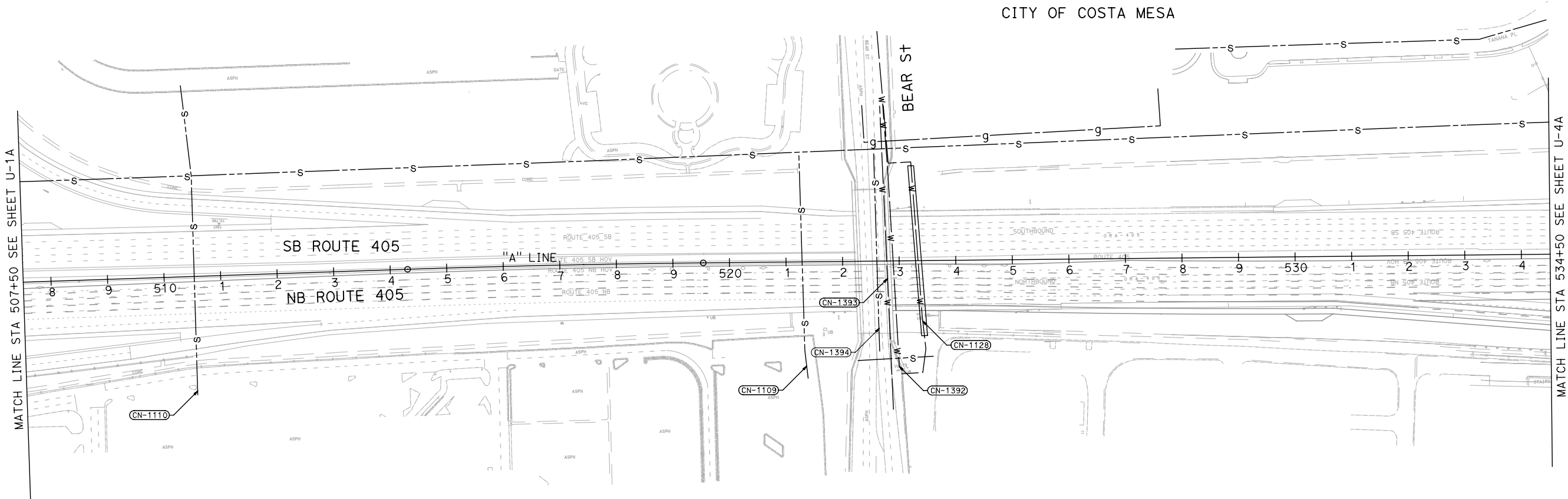
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12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

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PLANS APPROVAL DATE


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PARSONS 2201 DUPONT DRIVE SUITE 200 IRVINE, CA 92612	ORANGE COUNTY TRANSPORTATION AUTHORITY 550 SOUTH MAIN STREET ORANGE, CA 92863
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**UTILITY
U-2A**
SCALE 1"=100'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION



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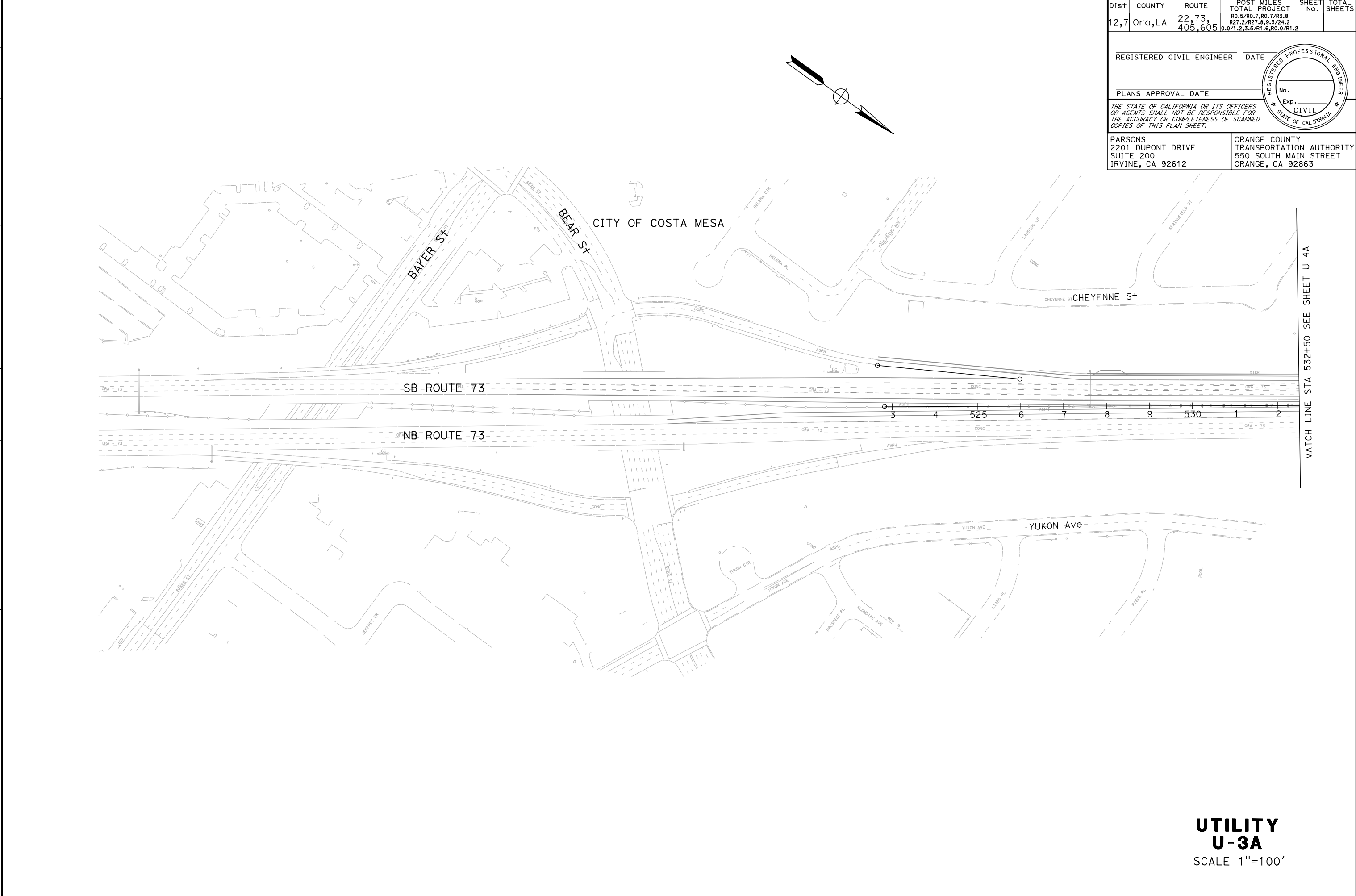
CONSULTANT FUNCTIONAL SUPERVISOR

REVISOR

DATE

REVISOR

DATE



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Oran,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

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ORANGE COUNTY
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ORANGE, CA 92863

REGISTERED PROFESSIONAL ENGINEER

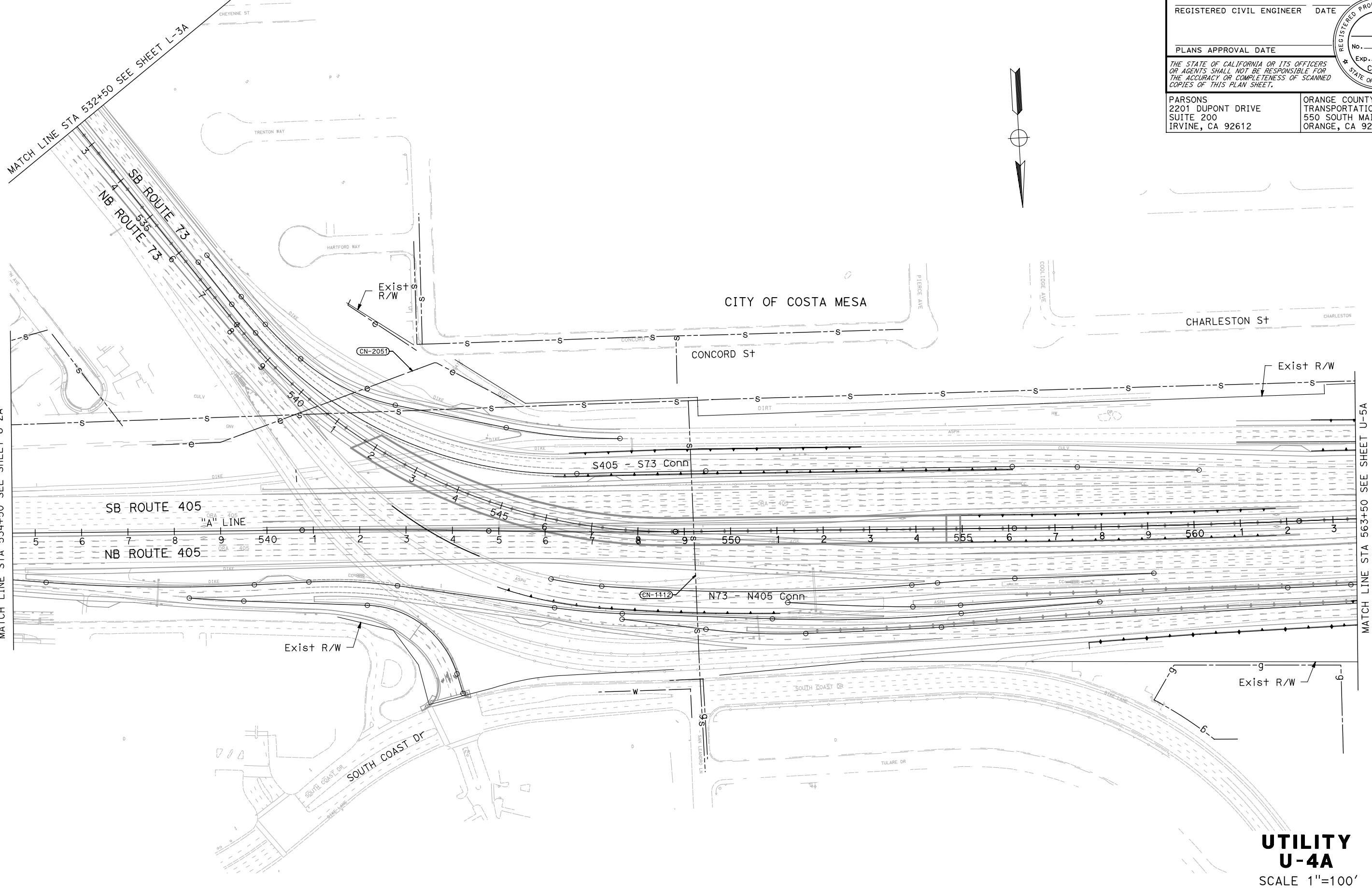
No.

Exp.

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STATE OF CALIFORNIA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR		CALCULATED-DESIGNED BY	REVISOR	DATE	REVISION



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Oran,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R21.2/R21.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		
REGISTERED CIVIL ENGINEER			DATE		
PLANS APPROVAL DATE					
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REGISTERED PROFESSIONAL ENGINEER

No. _____

Exp. _____

CIVIL

STATE OF CALIFORNIA

UTILITY
U-4A
SCALE 1"=100'

x
x
x
x
x

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USERNAME => p0038175
DGN FILE => ALT 3 UTILITY PLAN Sheets.dgn

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12000001800

DATE PLOTTED => 11/8/2011	LAST REVISION
TIME PLOTTED => 5:57:04 PM	00-00-00



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Oran, LA	22, 73, 405, 605	R0.5/R0.7, R0.7/R3.8 R27.2/R27.8, 9.3/24.2 6.0/1.2, 3.5/R1.6, R0.0/R1.2		

REGISTERED CIVIL ENGINEER
DATE



PLANS APPROVAL DATE

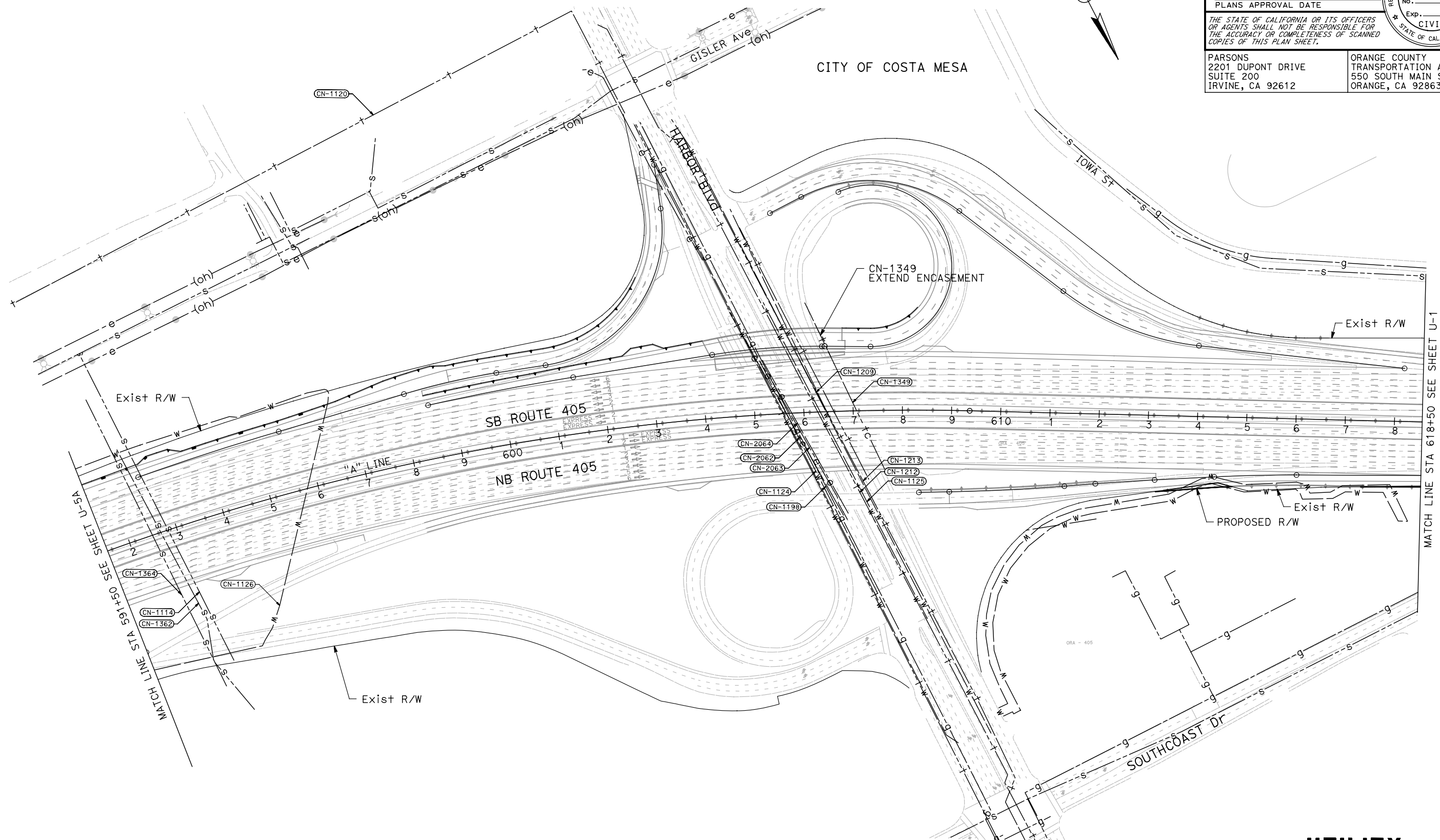
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PARSONS
2201 DUPONT DRIVE
SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863



PARSONS 2201 DUPONT DRIVE SUITE 200 IRVINE, CA 92612	ORANGE COUNTY TRANSPORTATION AUTHORITY 550 SOUTH MAIN STREET ORANGE, CA 92863
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**UTILITY
U-6A**
SCALE 1"=100'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

CALCULATED-DESIGNED BY

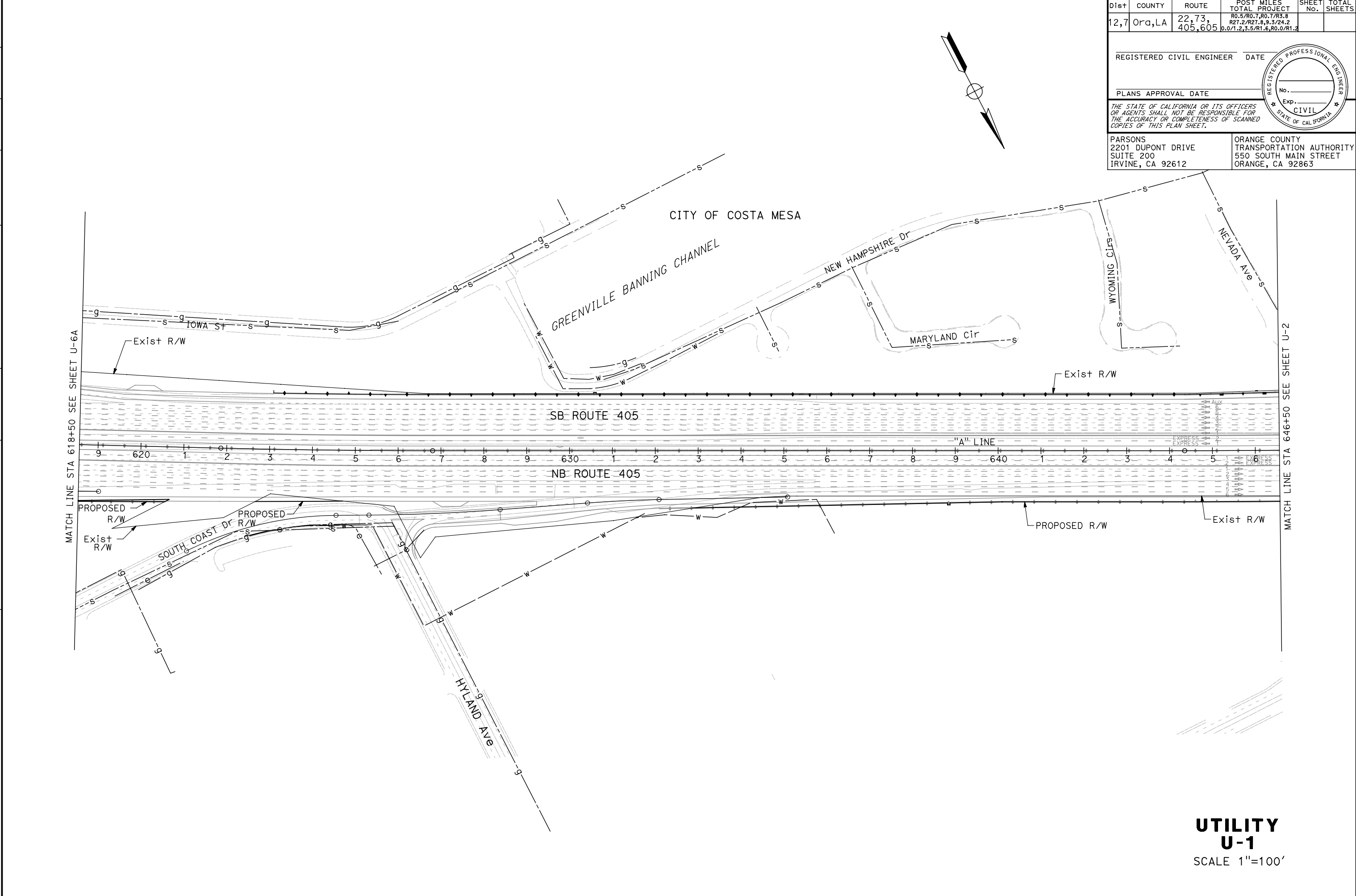
CHECKED BY

REVISOR

DATE

REVISOR

DATE



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ORANGE COUNTY TRANSPORTATION AUTHORITY 550 SOUTH MAIN STREET ORANGE, CA 92863

REGISTERED PROFESSIONAL ENGINEER

No.

Exp.

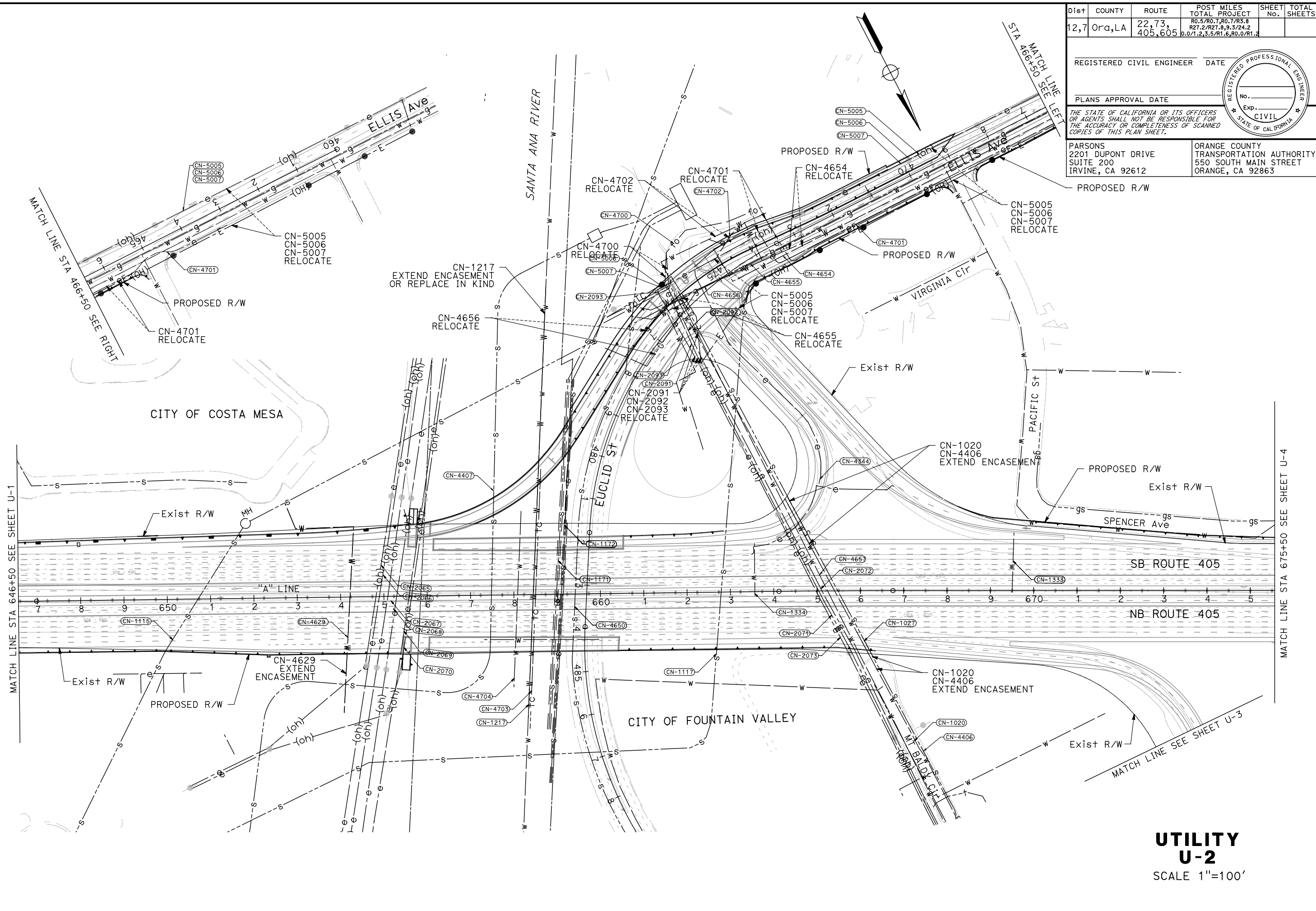
CIVIL

STATE OF CALIFORNIA


UTILITY
U-1
SCALE 1"=100'

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00-00-00 TIME PLOTTED => 5:58:38 PM

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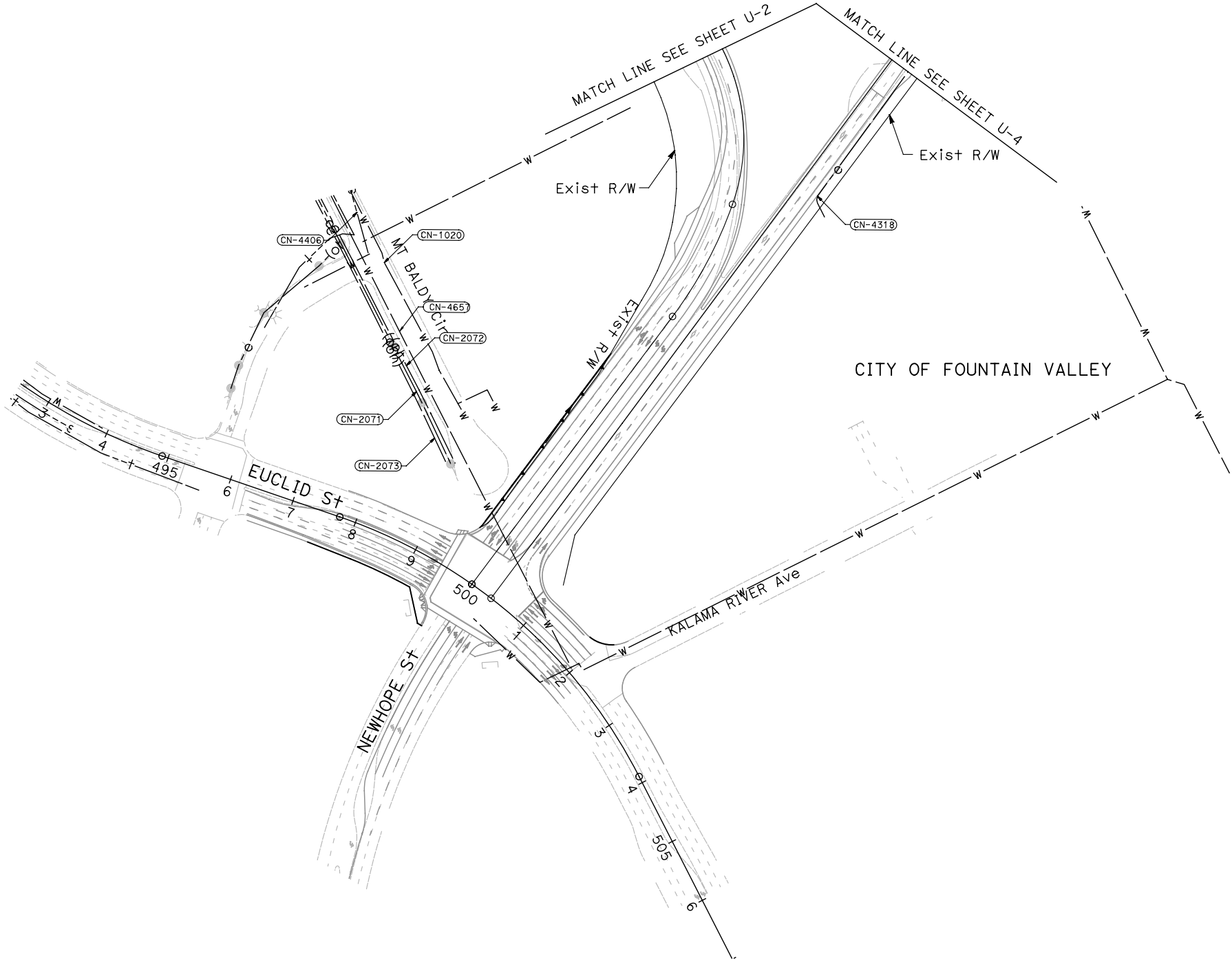
DATE

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DATE

REVISOR

DATE



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Oran,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R21.2/R21.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

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SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863

The seal is circular with 'REGISTERED PROFESSIONAL ENGINEER' around the top and 'STATE OF CALIFORNIA' around the bottom. In the center, it says 'CIVIL'. There are fields for 'No.' and 'Exp.'.

UTILITY
U-3
SCALE 1"=100'

BORDER LAST REVISED 7/2/2010

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DGN FILE => ALT 3 UTILITY PLAN Sheets.dgn

RELATIVE BORDER SCALE
IS IN INCHES

0 1 2 3

UNIT 2994

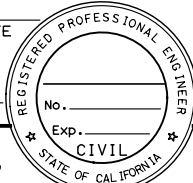
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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REGISTERED CIVIL ENGINEER
DATE

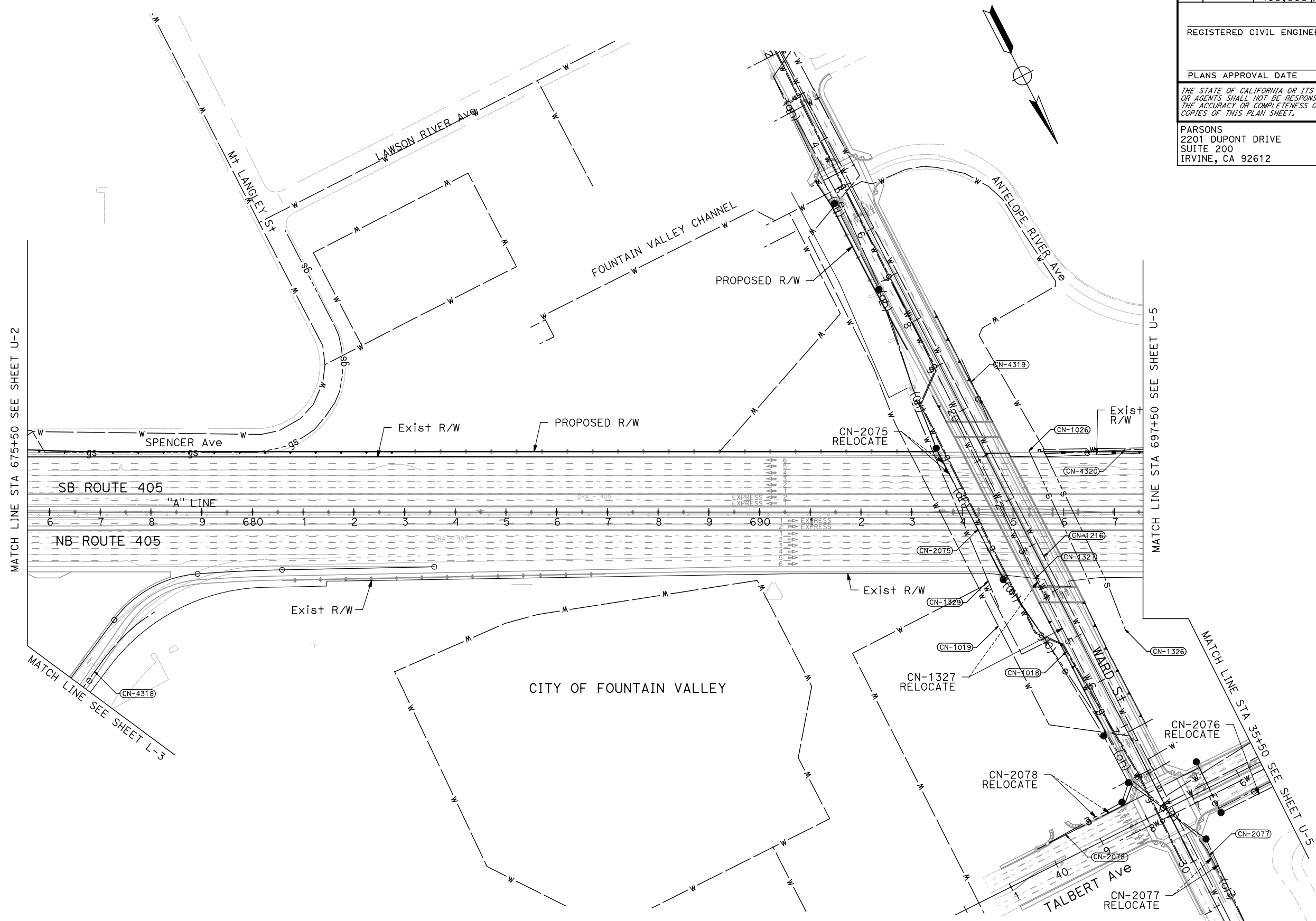


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SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863



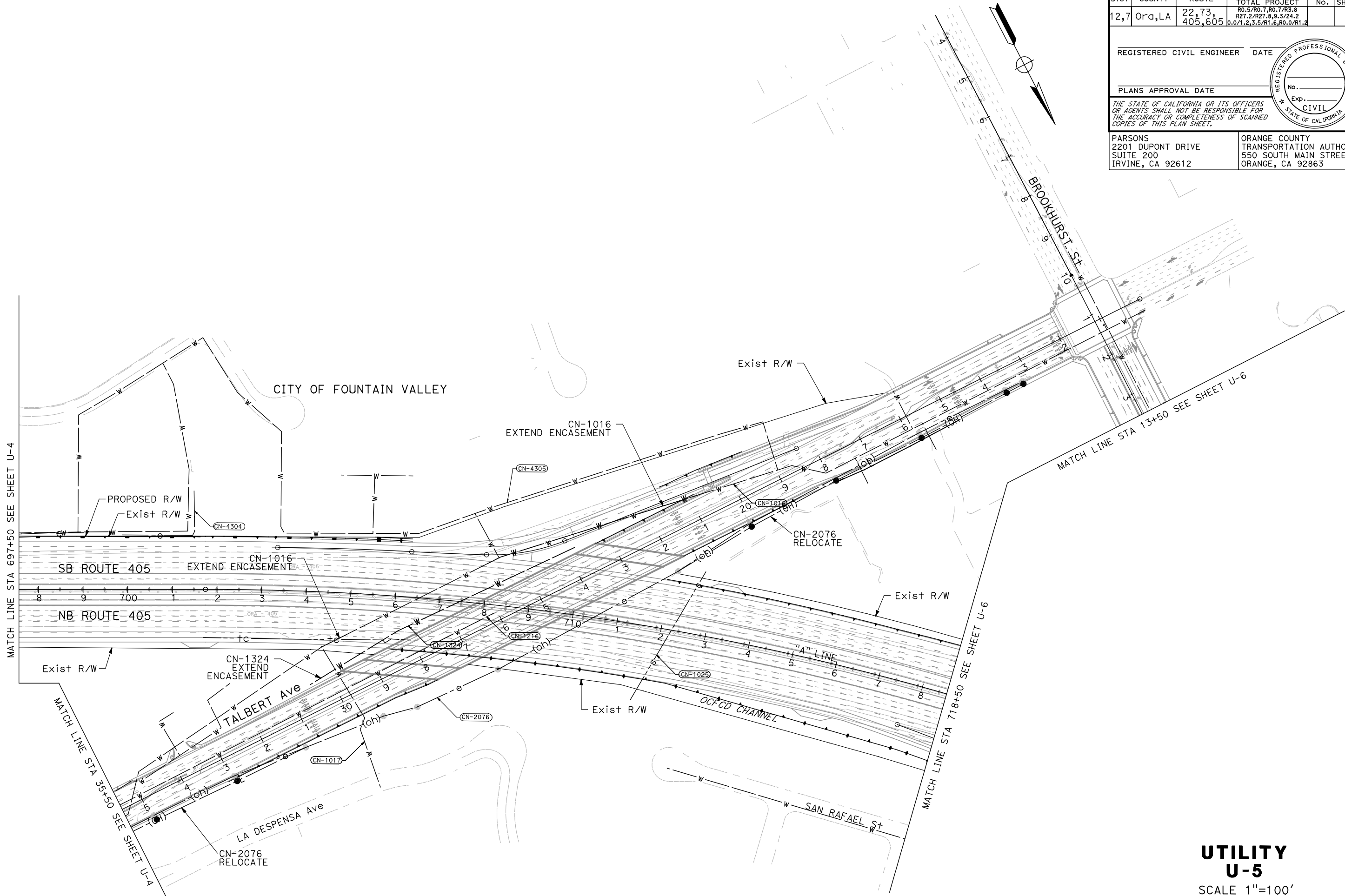
UTILITY
U-4
SCALE 1"=100'

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REGISTERED CIVIL ENGINEER	DATE
	
PLANS APPROVAL DATE	

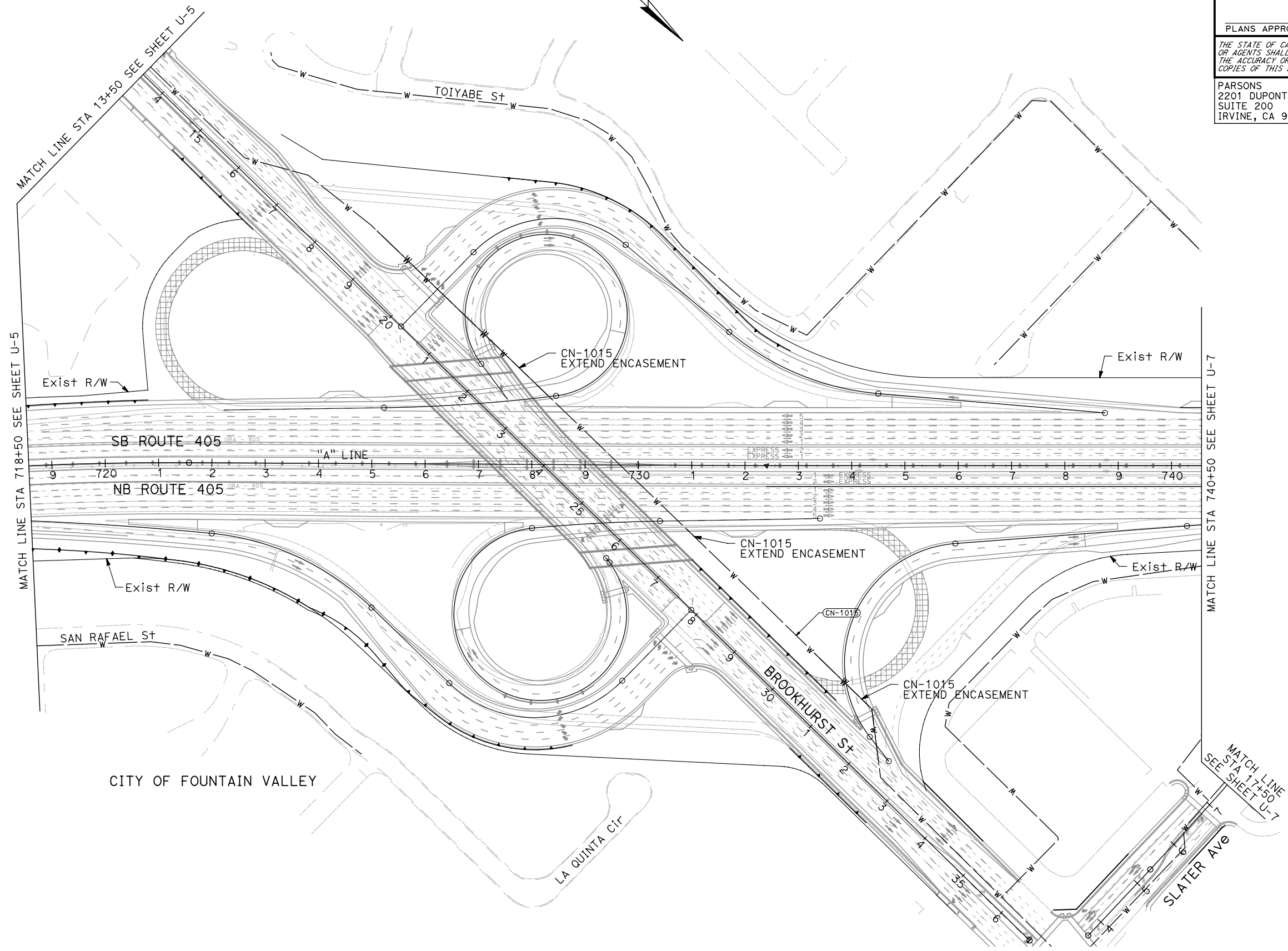
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UTILITY
U-5
SCALE 1"=100'

x	STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION		CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR	DATE
	Caltrans®					
x						
x						
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x						



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Oran,LA	22,73, 405,605	R0.5/R0.7/R0.7/R3.8 R21.2/R21.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		
REGISTERED CIVIL ENGINEER			DATE		
PLANS APPROVAL DATE			No. _____ Exp. _____		
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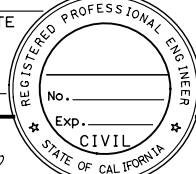
UTILITY
U-6
SCALE 1"=100'

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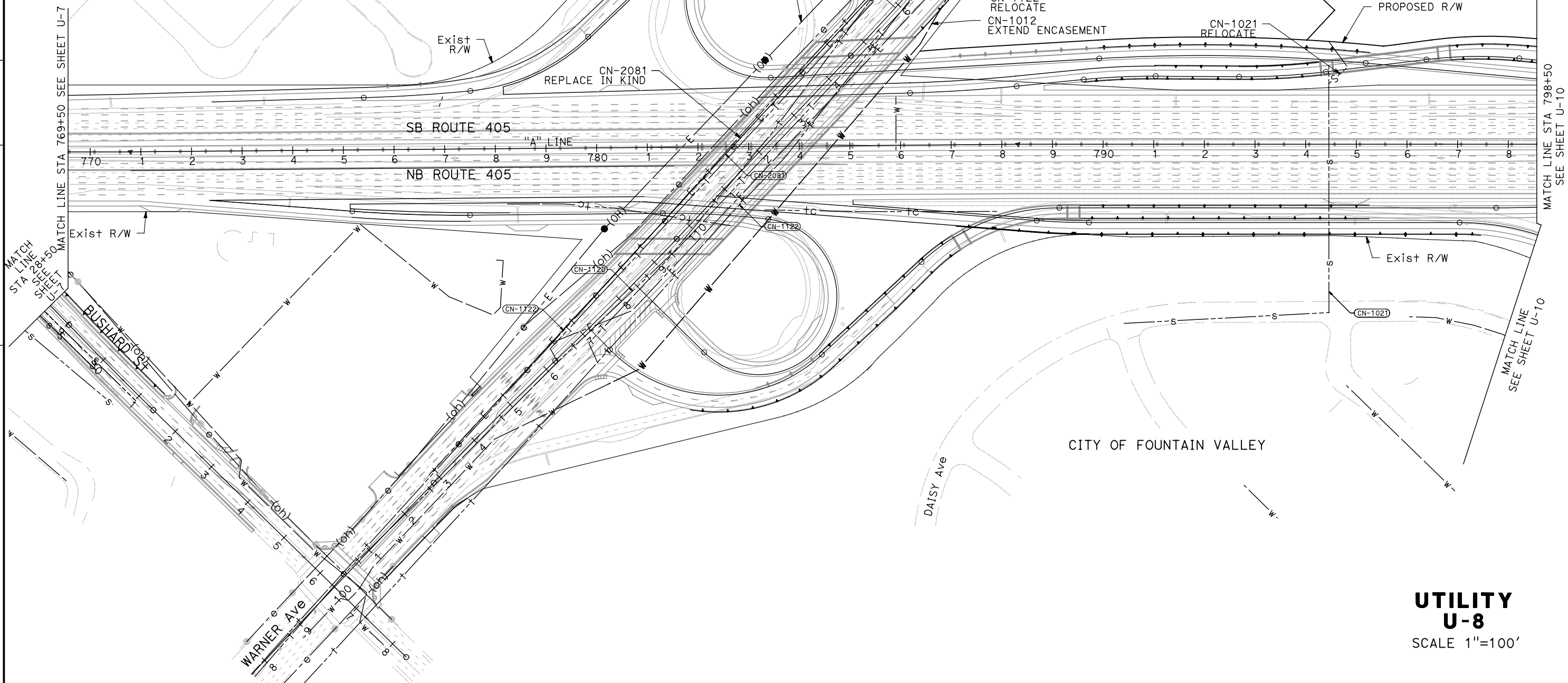
REGISTERED CIVIL ENGINEER
DATE


PLANS APPROVAL DATE

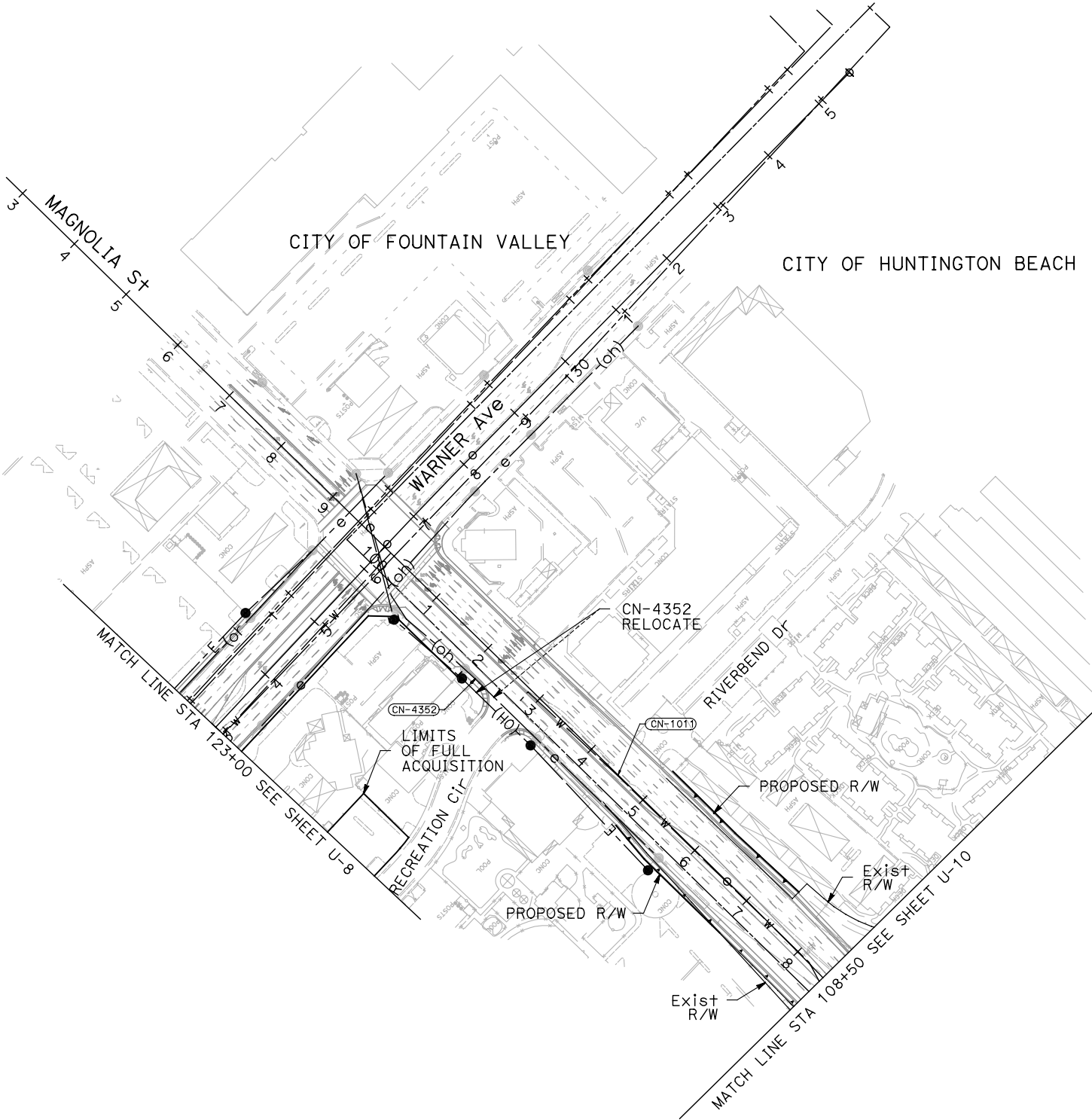
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PARSONS 2201 DUPONT DRIVE SUITE 200 IRVINE, CA 92612	ORANGE COUNTY TRANSPORTATION AUTHORITY 550 SOUTH MAIN STREET ORANGE, CA 92863
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<div>STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION</div> <div></div>	CONSULTANT FUNCTIONAL SUPERVISOR			CALCULATED- DESIGNED BY	REVISOR	DATE



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Oran,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R21.2/R21.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		
REGISTERED CIVIL ENGINEER DATE					
PLANS APPROVAL DATE					
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PARSONS 2201 DUPONT DRIVE SUITE 200 IRVINE, CA 92612			ORANGE COUNTY TRANSPORTATION AUTHORITY 550 SOUTH MAIN STREET ORANGE, CA 92863		

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No. _____
Exp. _____
CIVIL
STATE OF CALIFORNIA

UTILITY
U-9
SCALE 1"=100'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

CONSULTANT FUNCTIONAL SUPERVISOR

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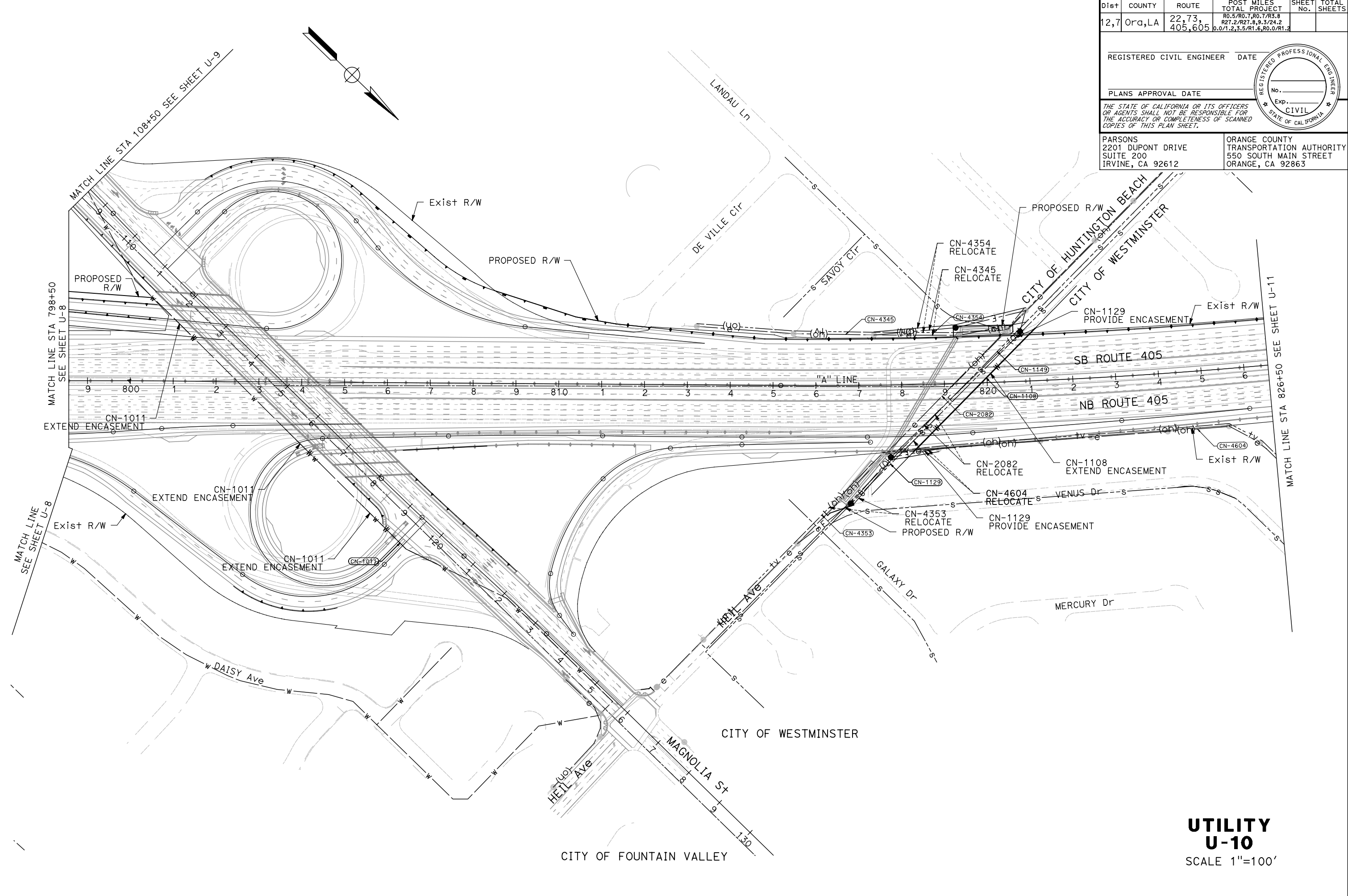
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DATE

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DATE



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Oran,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.9/R1.2		

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ORANGE COUNTY
TRANSPORTATION AUTHORITY
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ORANGE, CA 92863

REGISTERED PROFESSIONAL ENGINEER

No.

Exp.

CIVIL

STATE OF CALIFORNIA

UTILITY
U-10
SCALE 1"=100'

LAST REVISION DATE PLOTTED => 11/8/2011
00-00-00 TIME PLOTTED => 6:00:53 PM

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TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863

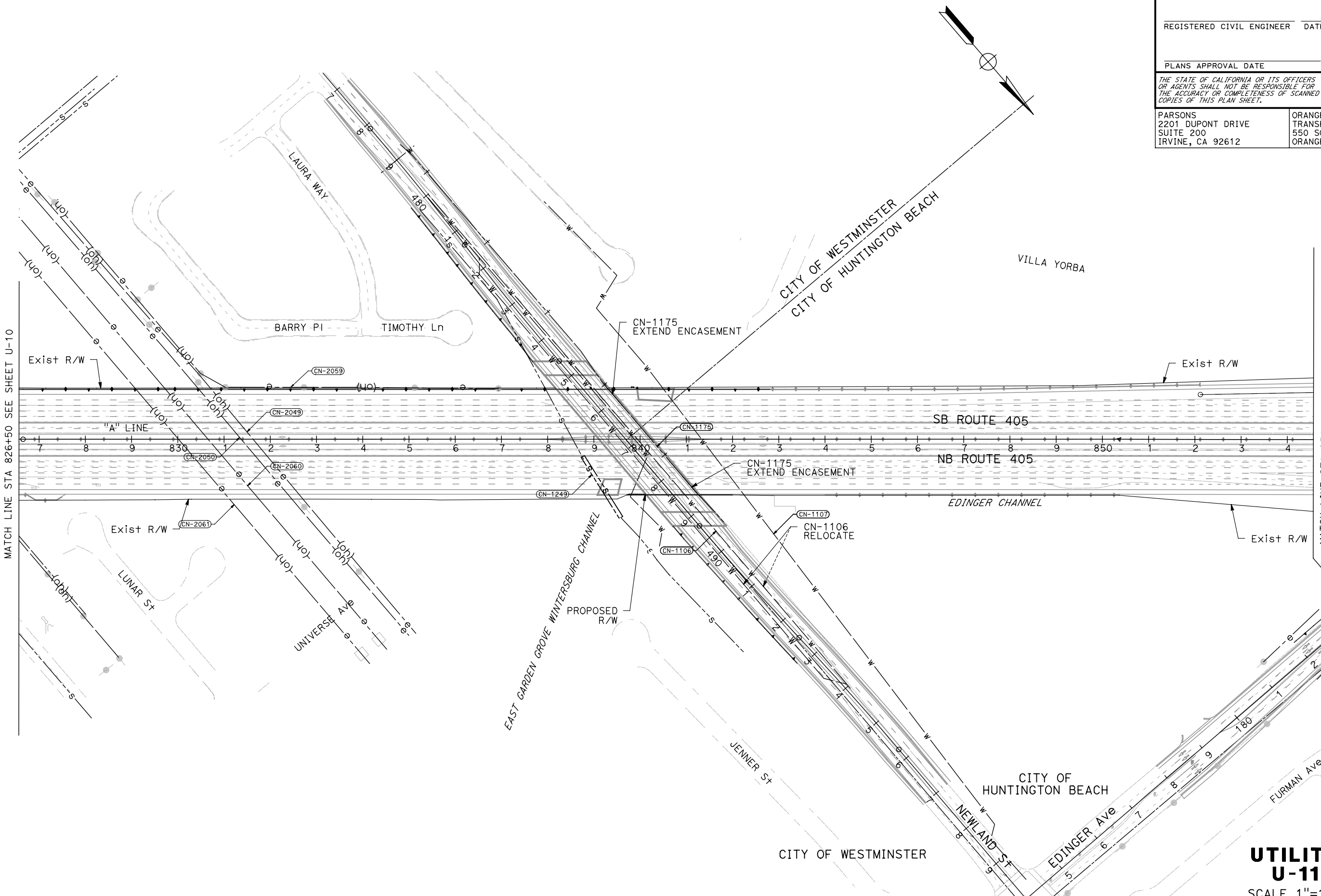
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Exp.

CIVIL

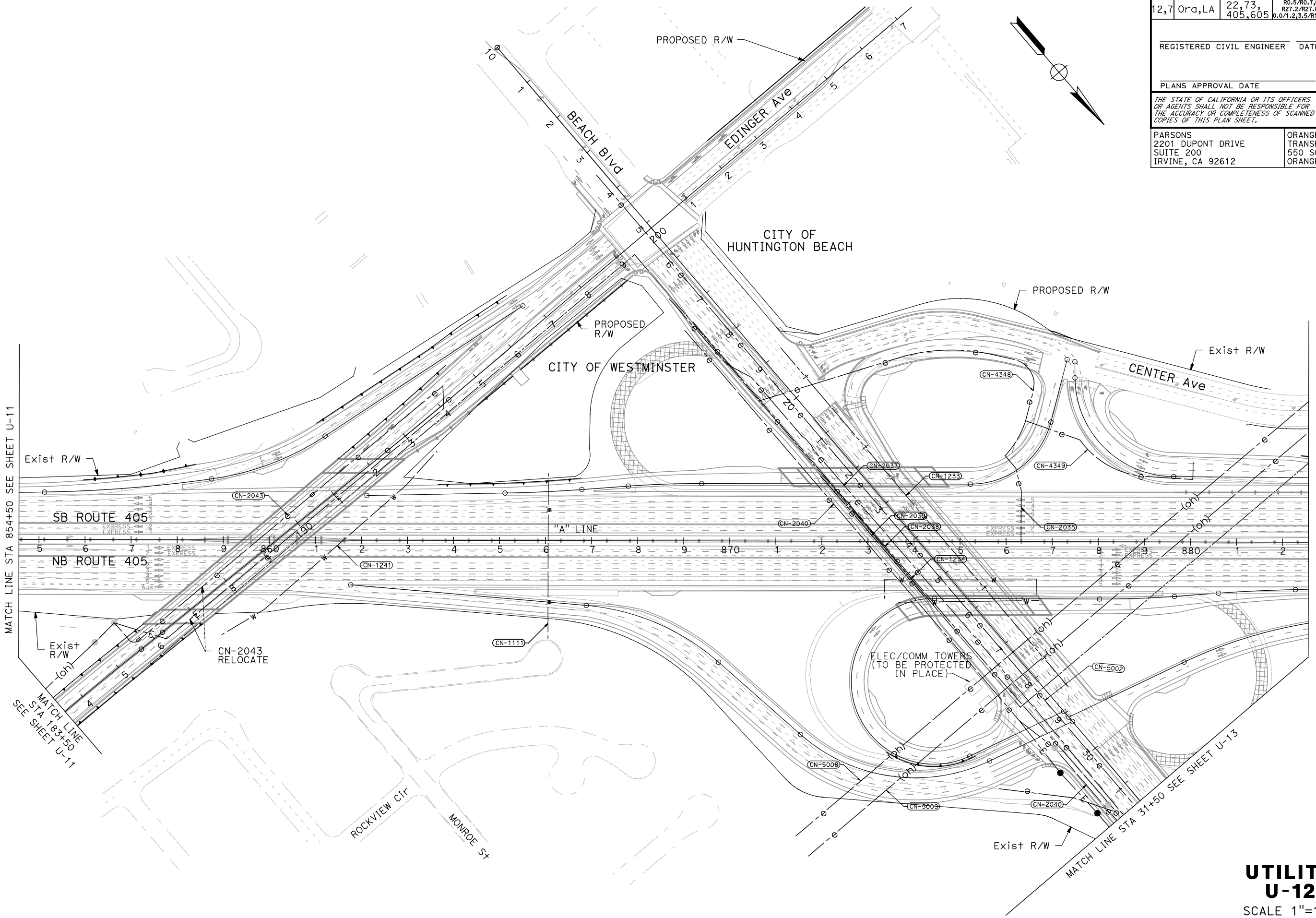
STATE OF CALIFORNIA



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR		CALCULATED- DESIGNED BY	REVISOR BY	DATE	REVISED BY	DATE	REVISED BY	DATE
			CHECKED BY						

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REGISTERED CIVIL ENGINEER DATE					
PLANS APPROVAL DATE					
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Exp. _____
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STATE OF CALIFORNIA



**UTILITY
U-12**
SCALE 1"=100'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR		CALCULATED-DESIGNED BY		REVISOR	
	CHECKED BY		DATE		DATE	
Caltrans						

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Oran,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R21.2/R21.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		
REGISTERED CIVIL ENGINEER DATE					
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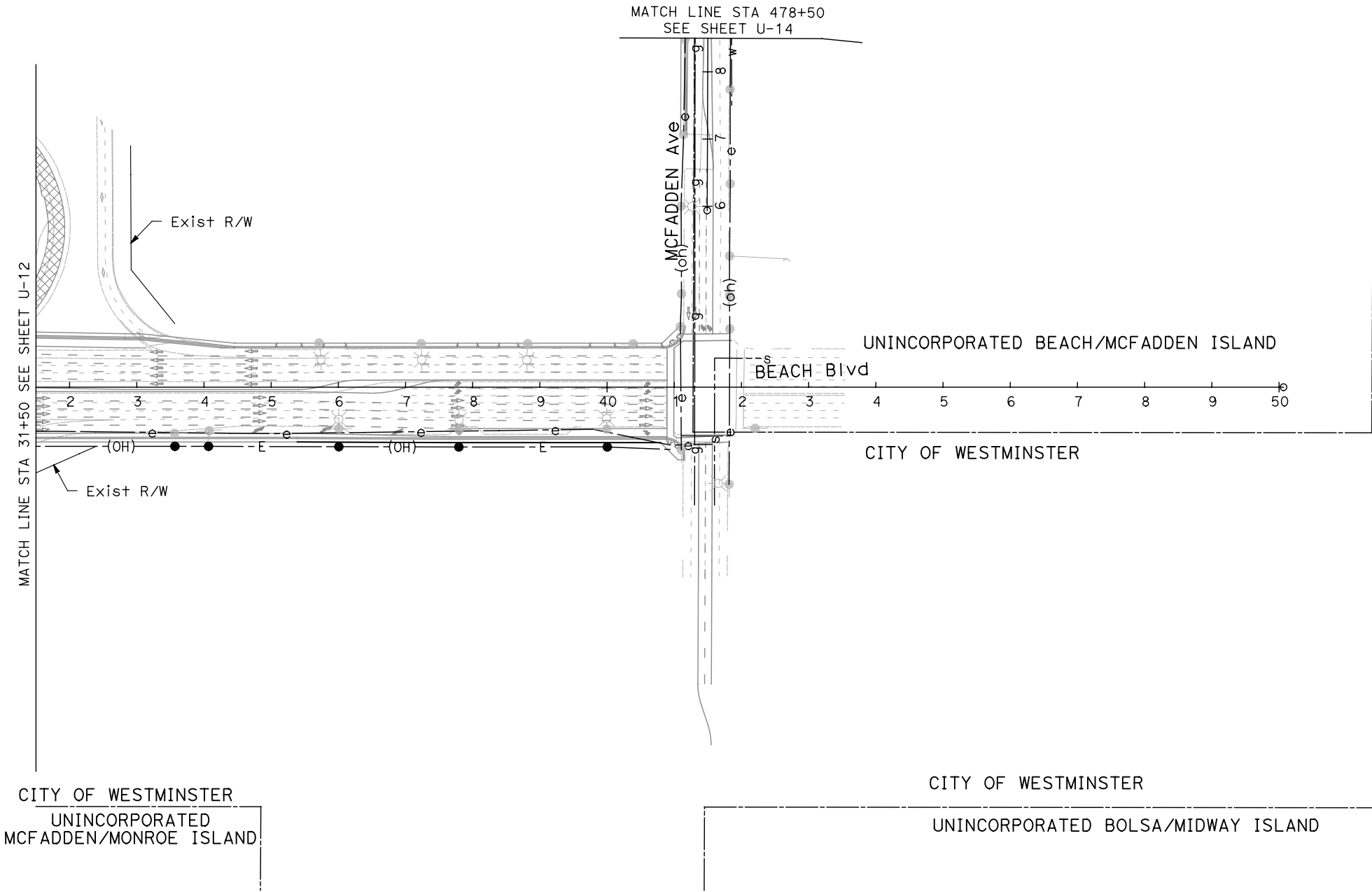
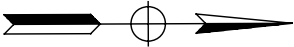
REGISTERED PROFESSIONAL ENGINEER

No. _____

Exp. _____

CIVIL

STATE OF CALIFORNIA



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

CONSULTANT FUNCTIONAL SUPERVISOR

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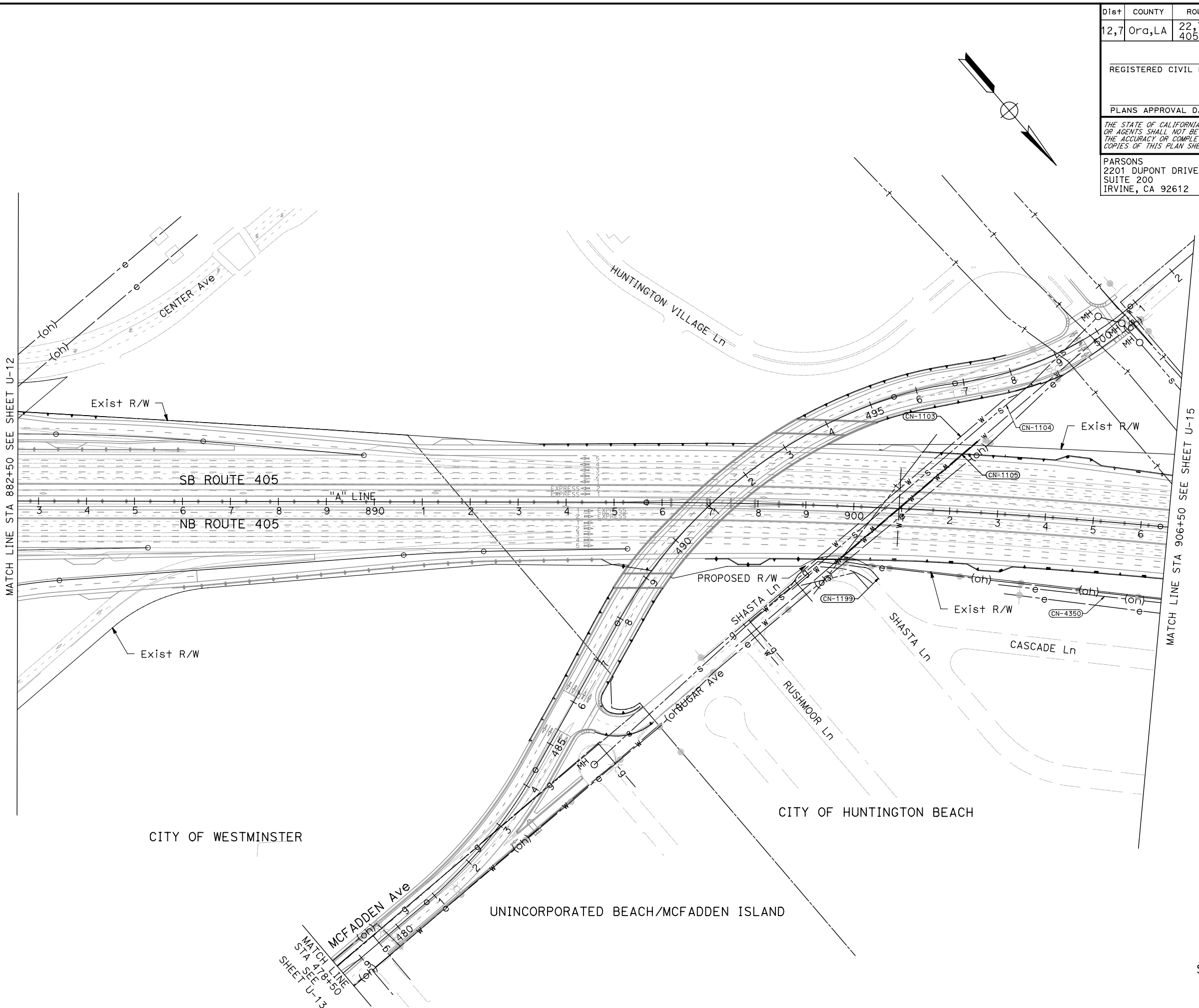
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REVISOR

DATE

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PARSONS
2201 DUPONT DRIVE
SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863

REGISTERED PROFESSIONAL ENGINEER

No.

Exp.

CIVIL

STATE OF CALIFORNIA

UTILITY

U-14

SCALE 1"=100'

LAST REVISION


DATE PLOTTED => 11/8/2011

00-00-00

TIME PLOTTED => 6:01:09 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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REGISTERED CIVIL ENGINEER
DATE

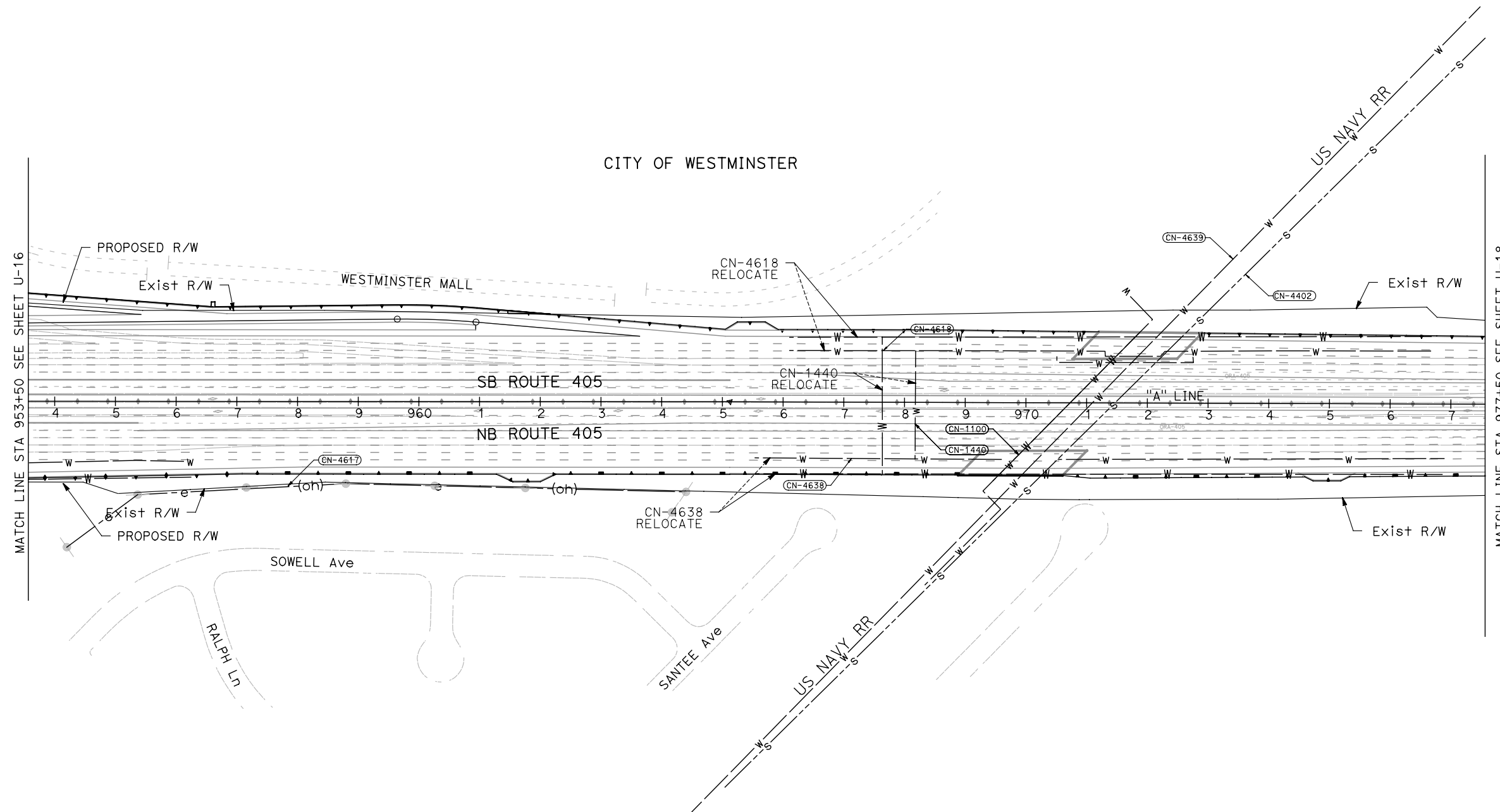


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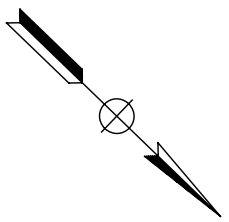
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863



UTILITY
U-17
SCALE 1"=100'

x

Et. Galttrans® 45

DATE REVISED

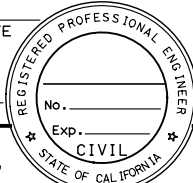
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LAST REVISION	

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REGISTERED CIVIL ENGINEER
DATE

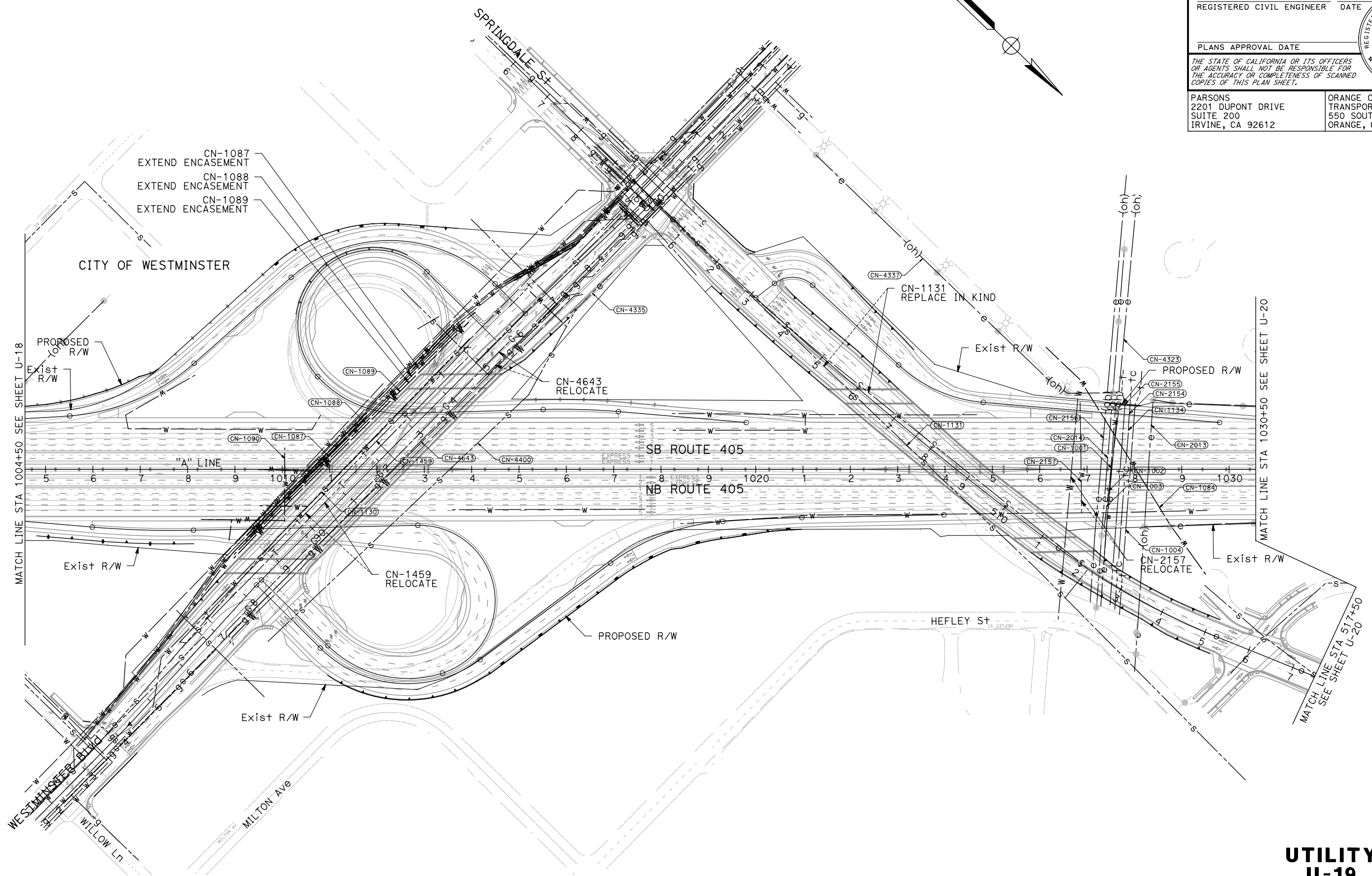


PLANS APPROVAL DATE

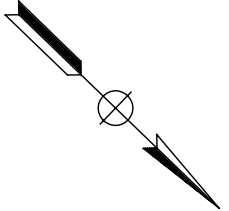
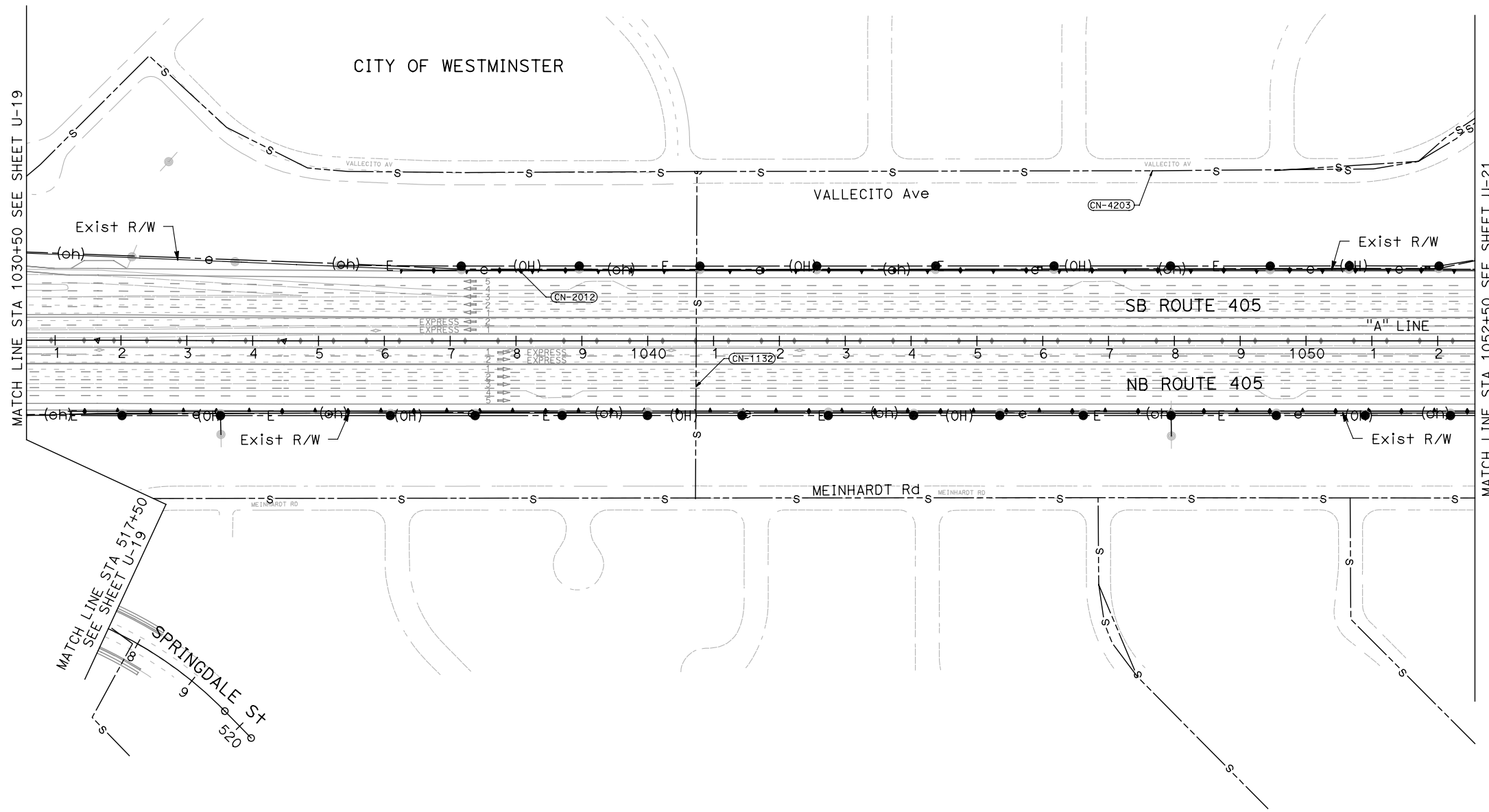
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PARSONS
2201 DUPONT DRIVE
SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863



UTILITY
U-19
SCALE 1"=100'



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Oran,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R21.2/R21.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

REGISTERED CIVIL ENGINEER

DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER

No.

Exp.

CIVIL

STATE OF CALIFORNIA

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ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863

UTILITY

U-20

SCALE 1"=100'

BORDER LAST REVISED 7/2/2010

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DGN FILE => ALT 3 UTILITY PLAN Sheets.dgn

RELATIVE BORDER SCALE
IS IN INCHES

0 1 2 3

UNIT 2994

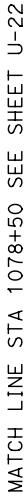
PROJECT NUMBER & PHASE

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00-00-00 | TIME PLOTTED => 6:01:56 PM

x

Et. Culture®

DATE REVISED

SCALE 1"=100'

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863



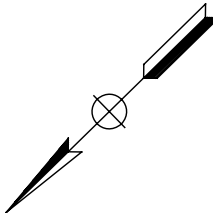
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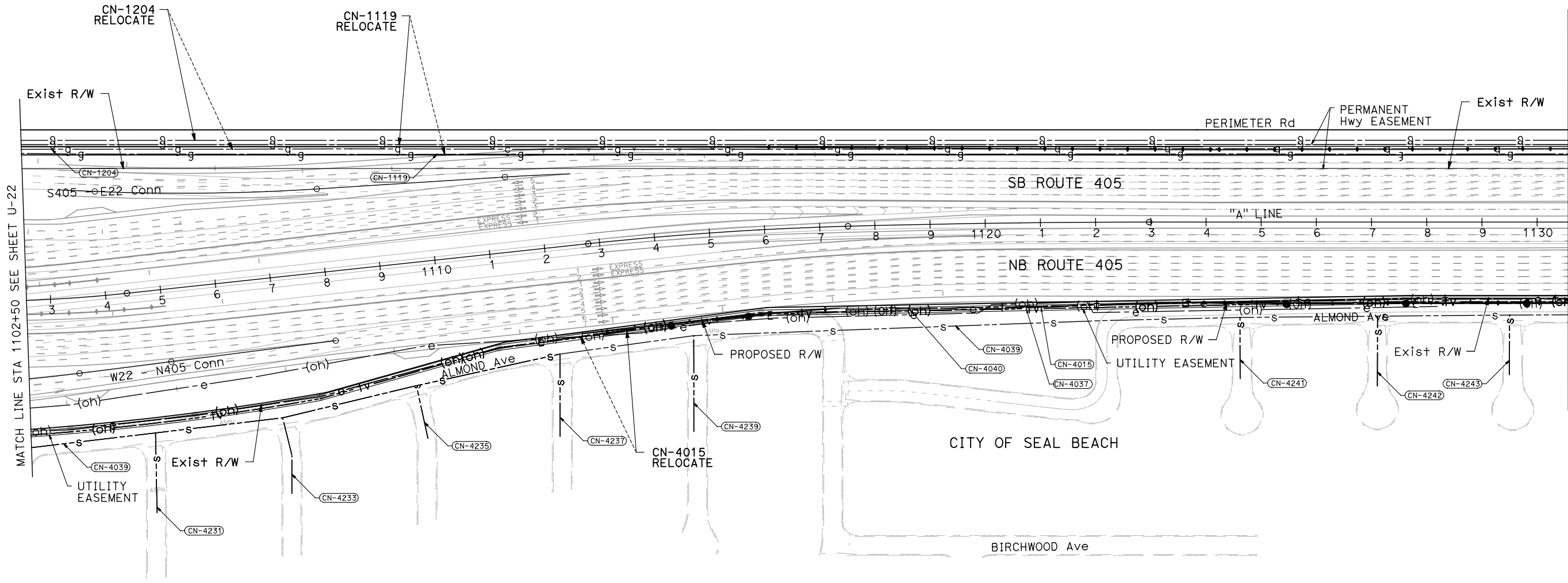
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00-00-00	TIME PLOTTED => 6:02:21 PM

**UTILITY
U-23**
SCALE 1"=100'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR		CALCULATED- DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED




Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Oran,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R21.2/R21.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		
REGISTERED CIVIL ENGINEER			DATE		
PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.			<div>REGISTERED PROFESSIONAL ENGINEER No. _____ Exp. _____ CIVIL STATE OF CALIFORNIA</div>		
PARSONS 2201 DUPONT DRIVE SUITE 200 IRVINE, CA 92612			ORANGE COUNTY TRANSPORTATION AUTHORITY 550 SOUTH MAIN STREET ORANGE, CA 92863		

**UTILITY
U-24**
SCALE 1"=100'

LAST REVISION DATE PLOTTED => 11/8/2011
00-00-00 TIME PLOTTED => 6:02:24 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Oran, LA	22, 73, 405, 605	R0.5/R0.7, R0.7/R3.8 R27.2/R27.8, 9.3/24.2 6.0/1.2, 3.5/R1.6, R0.0/R1.2		

REGISTERED CIVIL ENGINEER
DATE

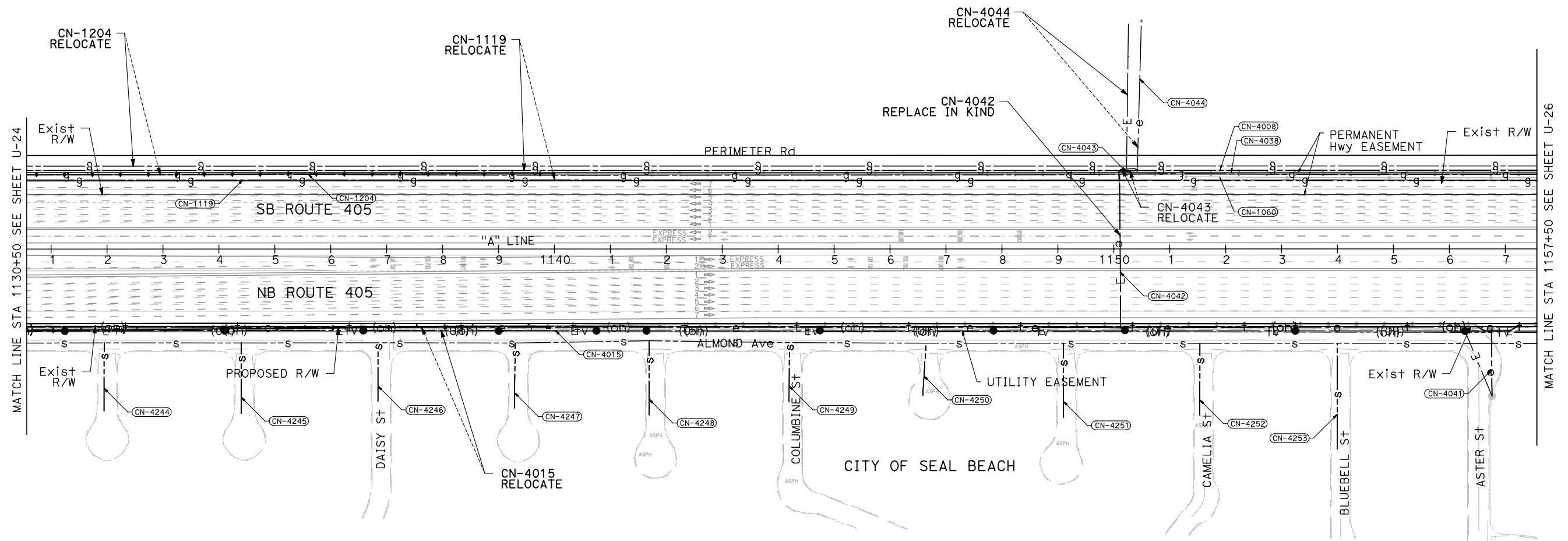


PLANS APPROVAL DATE

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SUITE 200
IRVINE, CA 92612

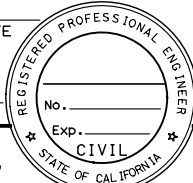
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863



UTILITY
U-25
SCALE 1"=100'

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Oran, LA	22, 73, 405, 605	R0.5/R0.7, R0.7/R3.8 R27.2/R27.8, 9.3/24.2 6.0/1.2, 3.5/R1.6, R0.0/R1.2		

REGISTERED CIVIL ENGINEER
DATE

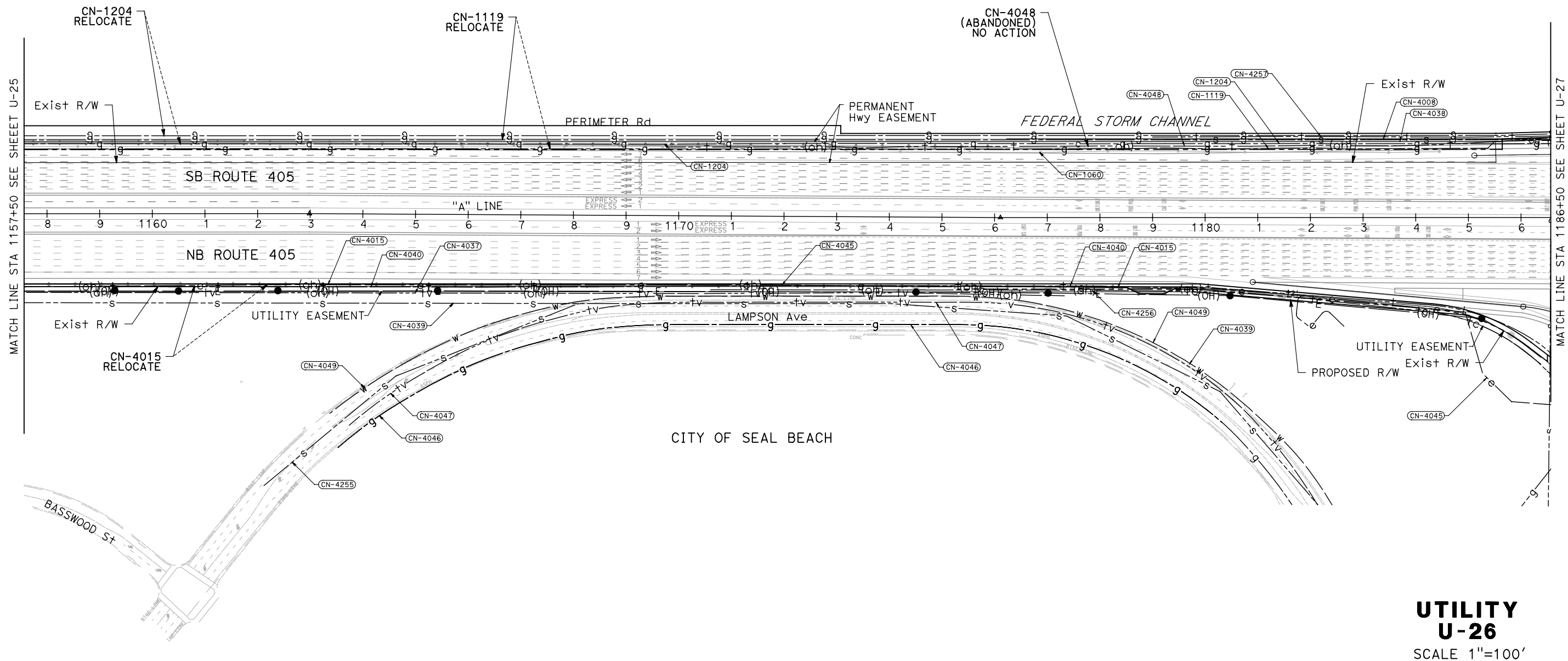


PLANS APPROVAL DATE

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PARSONS
2201 DUPONT DRIVE
SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863



UTILITY
U-26
SCALE 1"=100'

x
x

x

x

x

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DGN FILE => ALT 3 UTILITY PLAN Sheets.dgn

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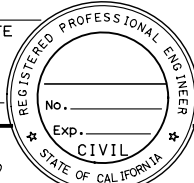
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00-00-00	TIME PLOTTED => 6:02:45 PM



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Oran, LA	22, 73, 405, 605	R0.5/R0.7, R0.7/R3.8 R27.2/R27.8, 9.3/24.2 6.0/1.2, 3.5/R1.6, R0.0/R1.2		

REGISTERED CIVIL ENGINEER
DATE



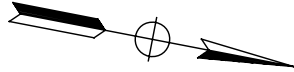
PLANS APPROVAL DATE

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PARSONS 2201 DUPONT DRIVE SUITE 200 IRVINE, CA 92612	ORANGE COUNTY TRANSPORTATION AUTHORITY 550 SOUTH MAIN STREET ORANGE, CA 92863
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UTILITY
U-29
SCALE 1"=100'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR	DATE	REVISOR	DATE



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.9/R1.2		
REGISTERED CIVIL ENGINEER DATE					
PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					
PARSONS 2201 DUPONT DRIVE SUITE 200 IRVINE, CA 92612			ORANGE COUNTY TRANSPORTATION AUTHORITY 550 SOUTH MAIN STREET ORANGE, CA 92863		

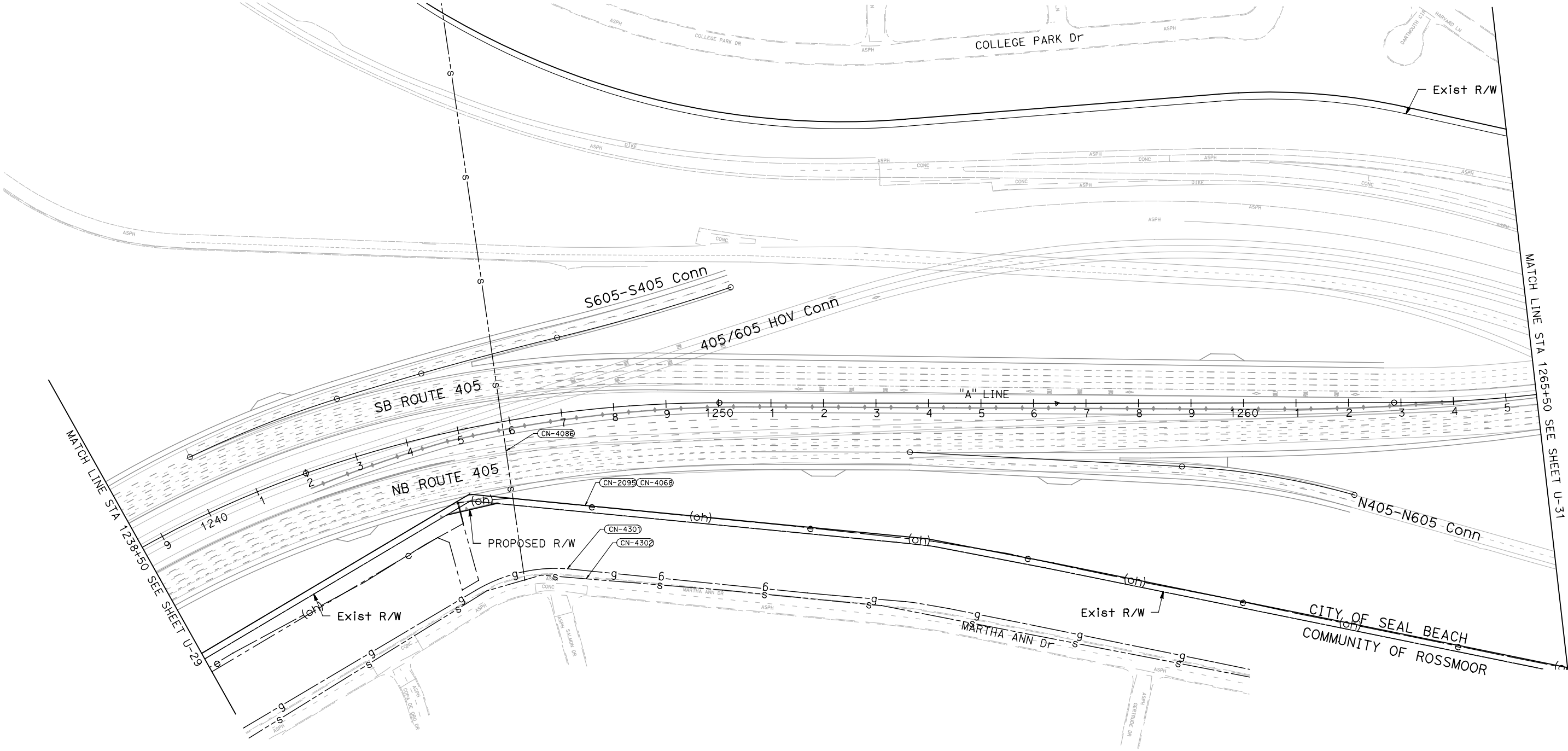
REGISTERED PROFESSIONAL ENGINEER

No. _____

Exp. _____

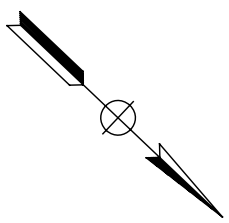
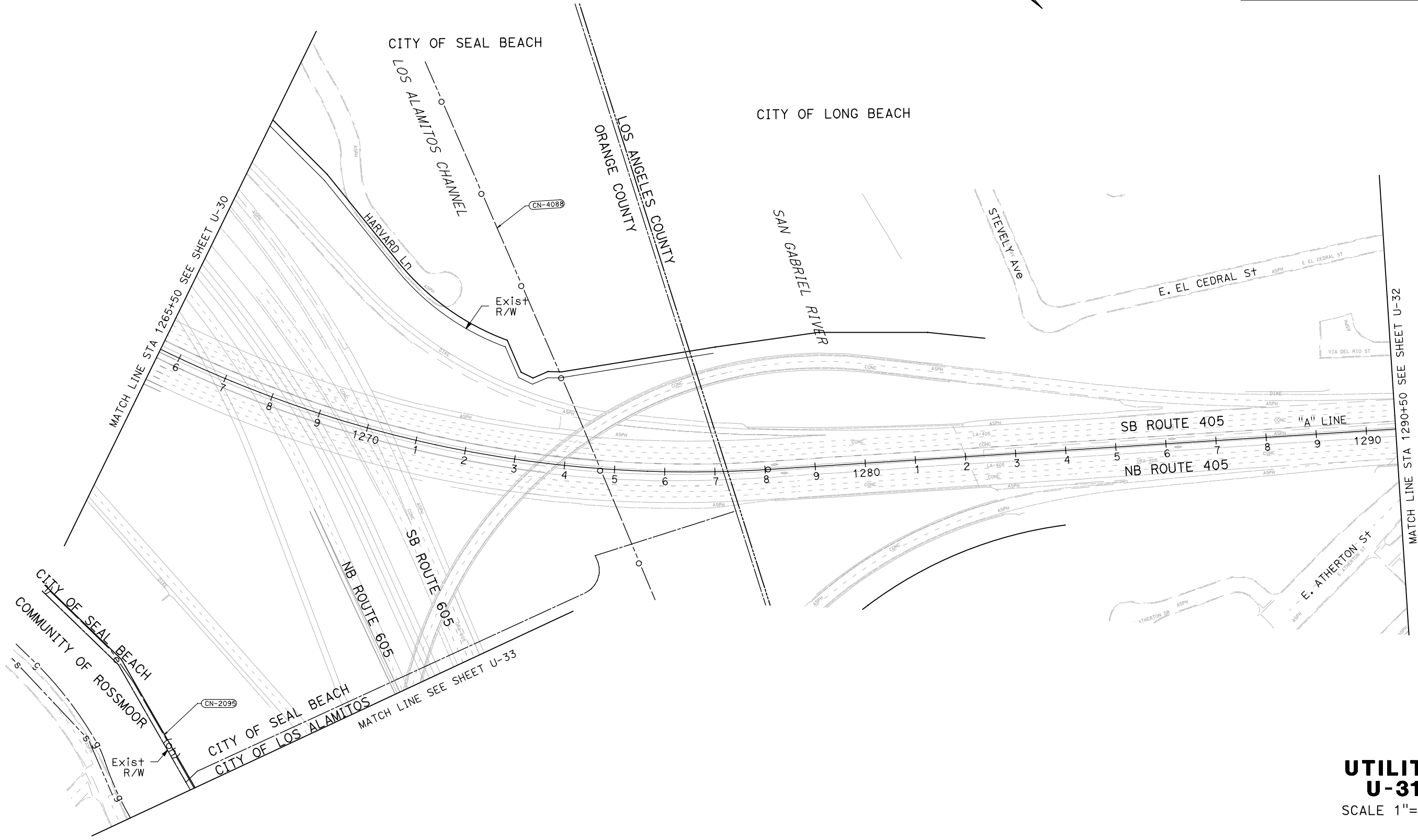
CIVIL

STATE OF CALIFORNIA



**UTILITY
U-30**
SCALE 1"=100'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR		CALCULATED- DESIGNED BY	REVISOR	DATE
UTAH	CONSULTANT FUNCTIONAL SUPERVISOR		CALCULATED- DESIGNED BY	REVISOR	DATE



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Oran,LA	22,73, 405,605	R0.5/R0.7/R0.7/R3.8 R2T.2/R2T.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		
REGISTERED CIVIL ENGINEER			DATE		
PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					
PARSONS 2201 DUPONT DRIVE SUITE 200 IRVINE, CA 92612			ORANGE COUNTY TRANSPORTATION AUTHORITY 550 SOUTH MAIN STREET ORANGE, CA 92863		

REGISTERED PROFESSIONAL ENGINEER

No. _____


Exp. _____

CIVIL

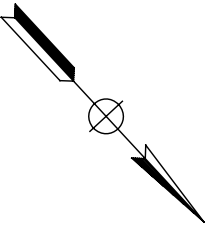
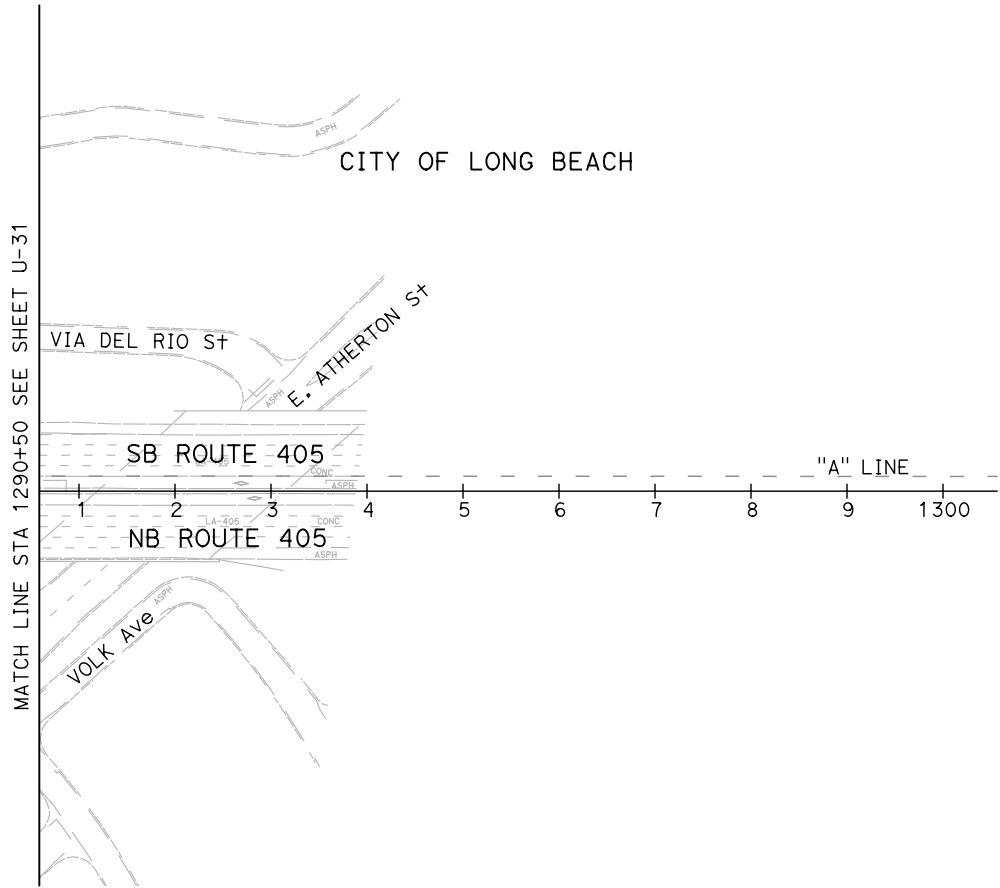
STATE OF CALIFORNIA

UTILITY
U-31
SCALE 1"=100'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION



CONSULTANT	FUNCTIONAL SUPERVISOR	CALCULATED- DESIGNED BY	CHECKED BY	REVISED BY	DATE	REVISED BY	DATE	REVISED BY	DATE	REVISED BY	DATE




Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Oran,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R21.2/R21.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

REGISTERED CIVIL ENGINEER

DATE

PLANS APPROVAL DATE

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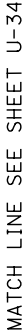
PARSONS 2201 DUPONT DRIVE SUITE 200 IRVINE, CA 92612	ORANGE COUNTY TRANSPORTATION AUTHORITY 550 SOUTH MAIN STREET ORANGE, CA 92863
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UTILITY
U-32
SCALE 1"=100'

X

Et. Culture®

REVISED BY
DATE REVISED

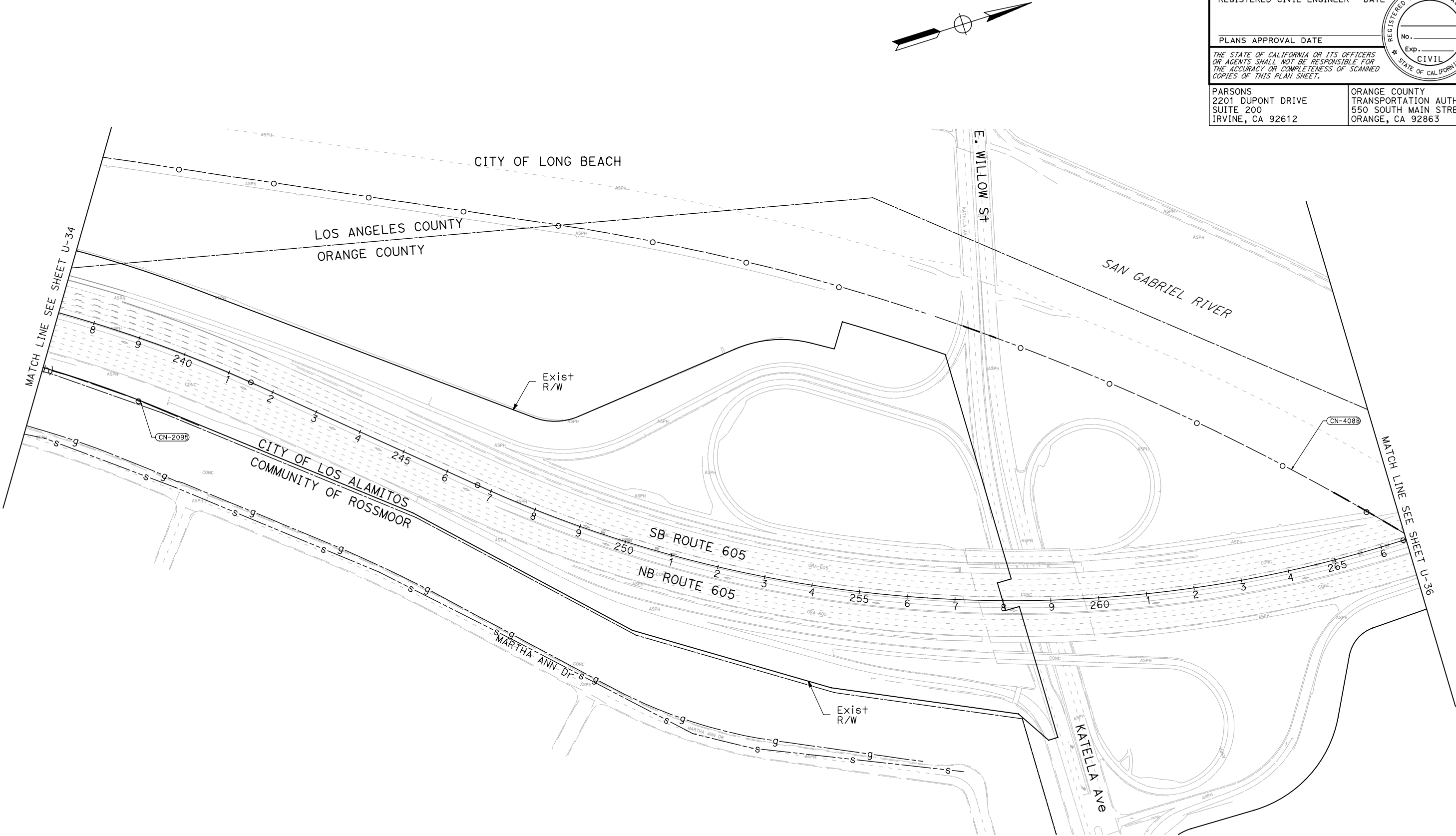


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TIME PLOTTED => 6:03:03 PM	00-00-00

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR		CALCULATED- DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED

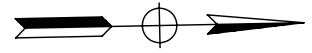
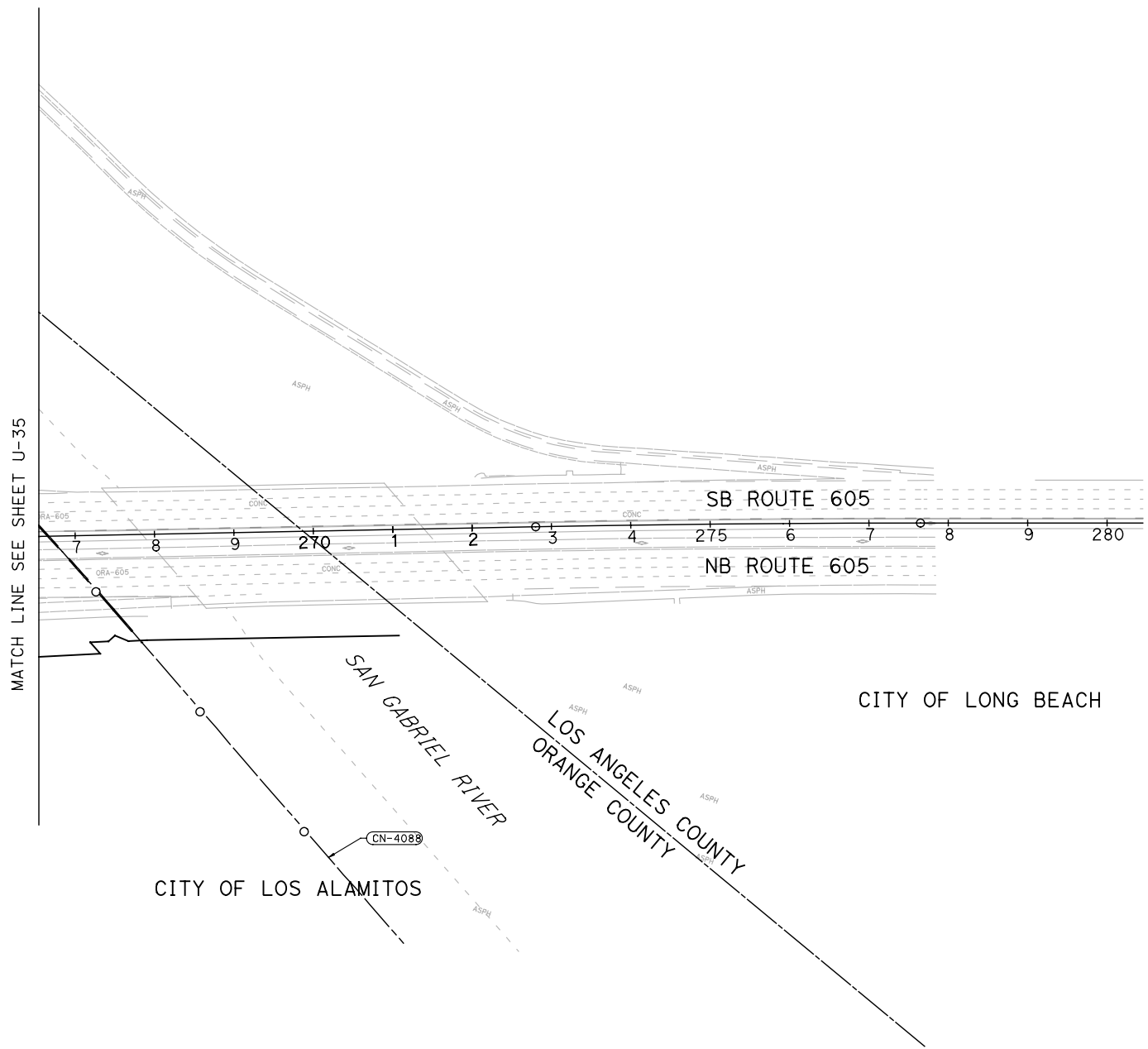


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Oran,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R21.2/R21.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		
REGISTERED CIVIL ENGINEER			DATE		
PLANS APPROVAL DATE			No. _____ Exp. _____ CIVIL STATE OF CALIFORNIA		
PARSONS 2201 DUPONT DRIVE SUITE 200 IRVINE, CA 92612			ORANGE COUNTY TRANSPORTATION AUTHORITY 550 SOUTH MAIN STREET ORANGE, CA 92863		



UTILITY
U-35
SCALE 1"=100'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR		CALCULATED- DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Oran,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R21.2/R21.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		
REGISTERED CIVIL ENGINEER DATE					
PLANS APPROVAL DATE					
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PARSONS 2201 DUPONT DRIVE SUITE 200 IRVINE, CA 92612			ORANGE COUNTY TRANSPORTATION AUTHORITY 550 SOUTH MAIN STREET ORANGE, CA 92863		

REGISTERED PROFESSIONAL ENGINEER

No. _____

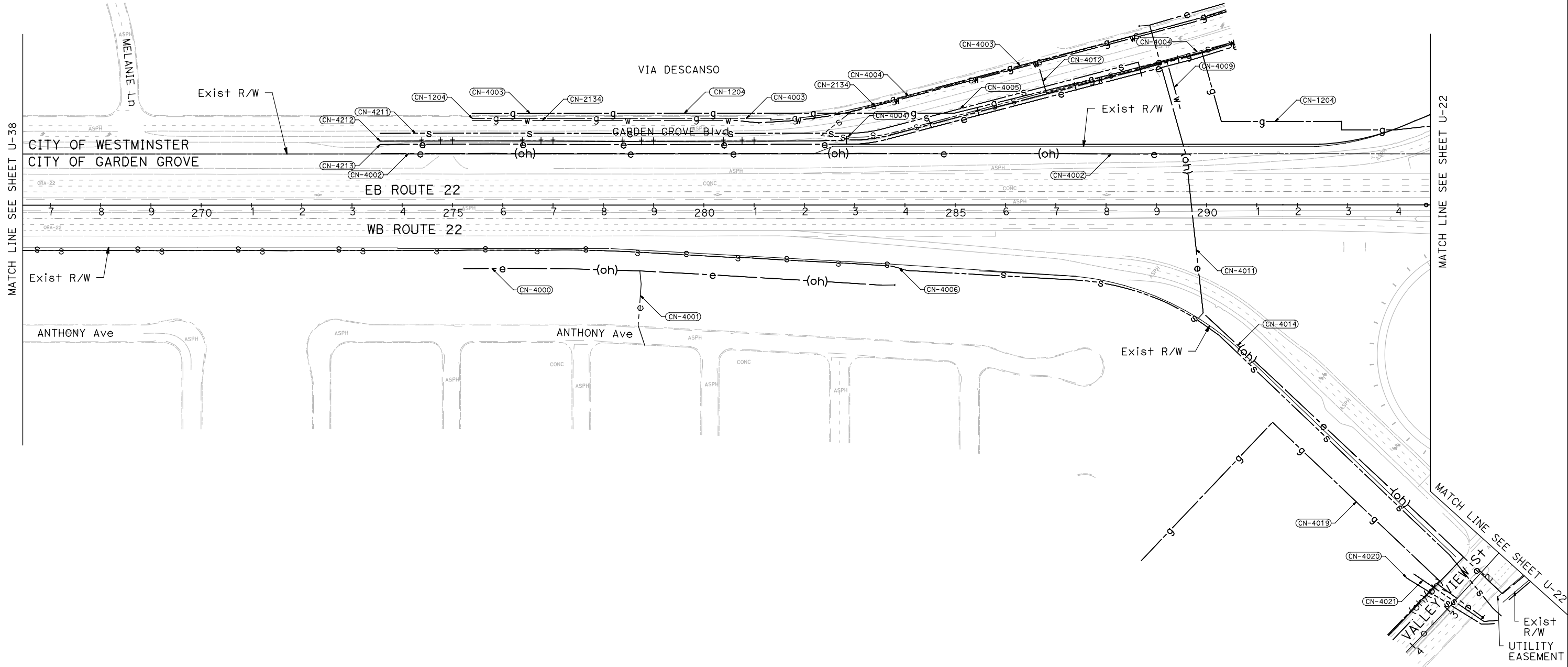
Exp. _____

CIVIL

STATE OF CALIFORNIA

UTILITY
U-36
SCALE 1"=100'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR	DATE	REVISOR	DATE



UTILITY
U-37
SCALE 1"=100'

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

REGISTERED CIVIL ENGINEER

DATE

PLANS APPROVAL DATE

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PARSONS
2201 DUPONT DRIVE
SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863

REGISTERED PROFESSIONAL ENGINEER

No.

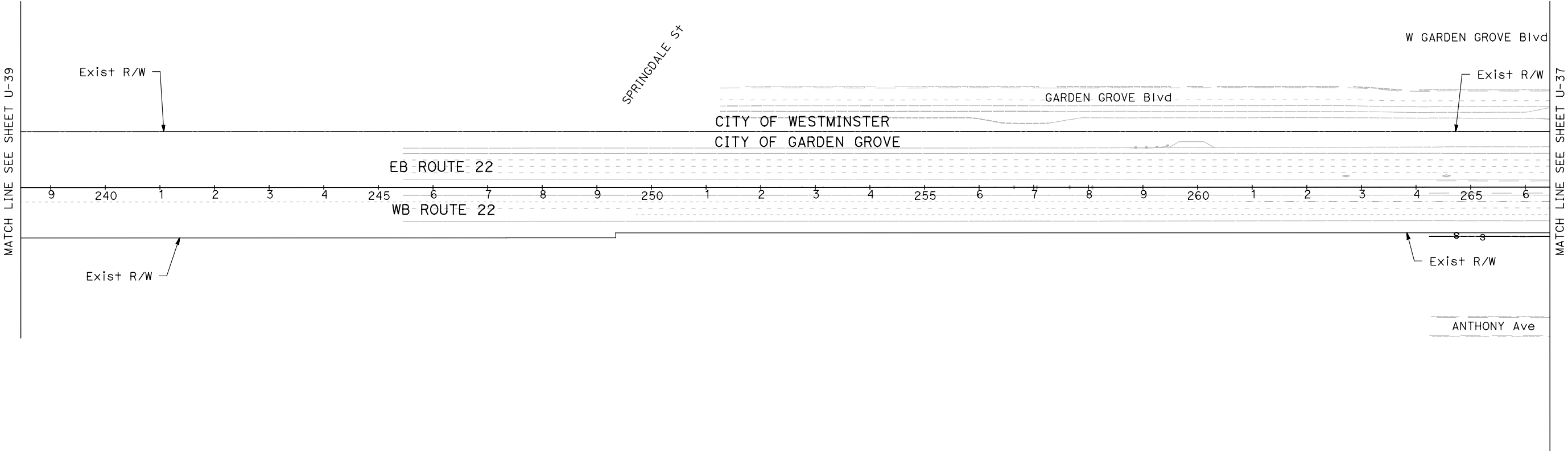
Exp.

CIVIL

STATE OF CALIFORNIA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED- DESIGNED BY	REVISOR BY	DATE	REVISOR	DATE
		CHECKED BY	DATE	REVISOR	DATE	REVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION




UTILITY
U-38
SCALE 1"=100'



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Oran,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R21.2/R21.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.9/R1.2		
REGISTERED CIVIL ENGINEER			DATE		
PLANS APPROVAL DATE			No. _____ Exp. _____ CIVIL STATE OF CALIFORNIA		
PARSONS 2201 DUPONT DRIVE SUITE 200 IRVINE, CA 92612			ORANGE COUNTY TRANSPORTATION AUTHORITY 550 SOUTH MAIN STREET ORANGE, CA 92863		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION



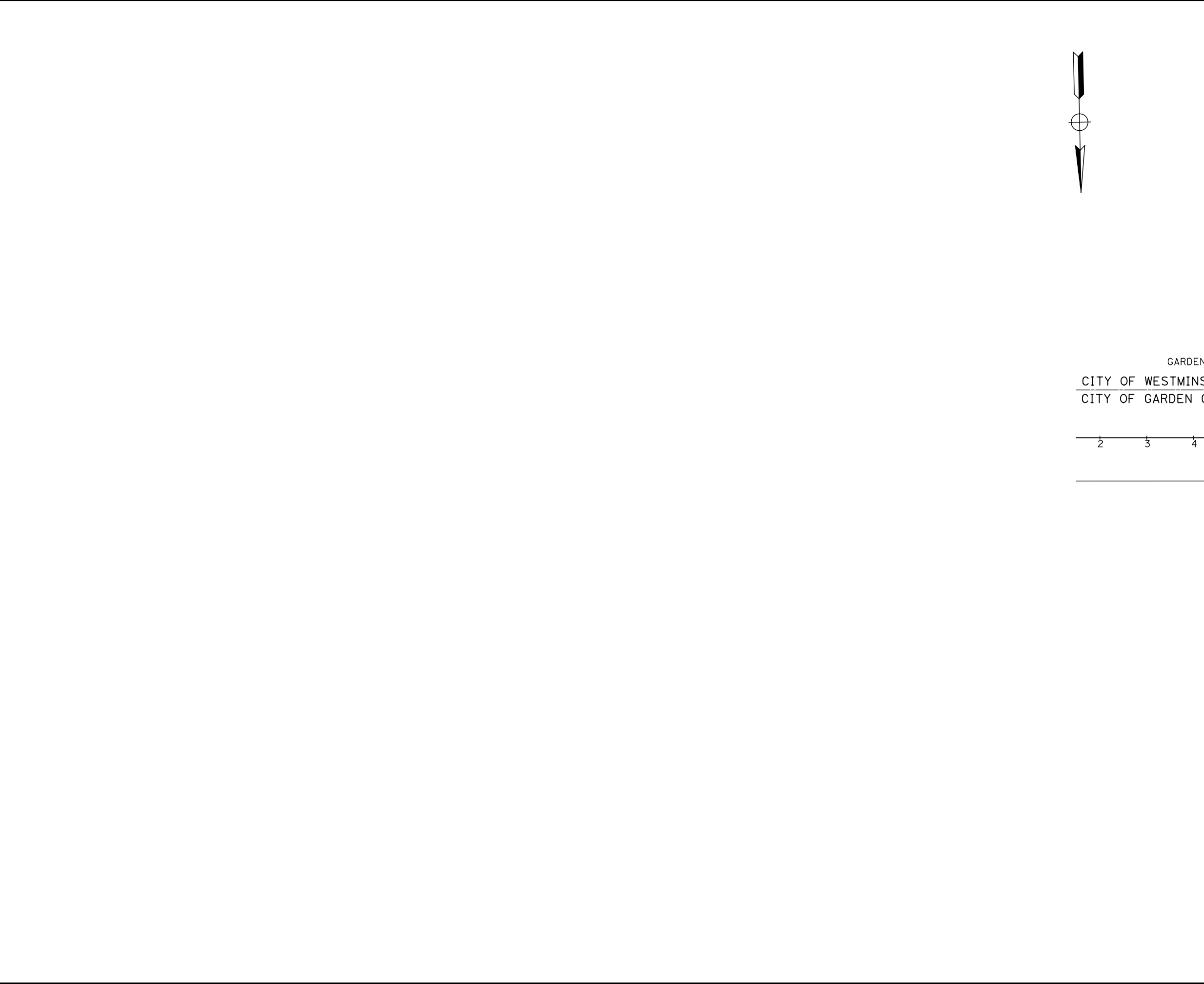
CONSULTANT FUNCTIONAL SUPERVISOR

CALCULATED-DESIGNED BY

CHECKED BY

REVISED BY

DATE REVISED



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Oran,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R21.2/R21.8,9.3/24.8 0.0/1.2,3.5/R1.6,R0.0/R1.2		
REGISTERED CIVIL ENGINEER DATE					
PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					
PARSONS 2201 DUPONT DRIVE SUITE 200 IRVINE, CA 92612			ORANGE COUNTY TRANSPORTATION AUTHORITY 550 SOUTH MAIN STREET ORANGE, CA 92863		

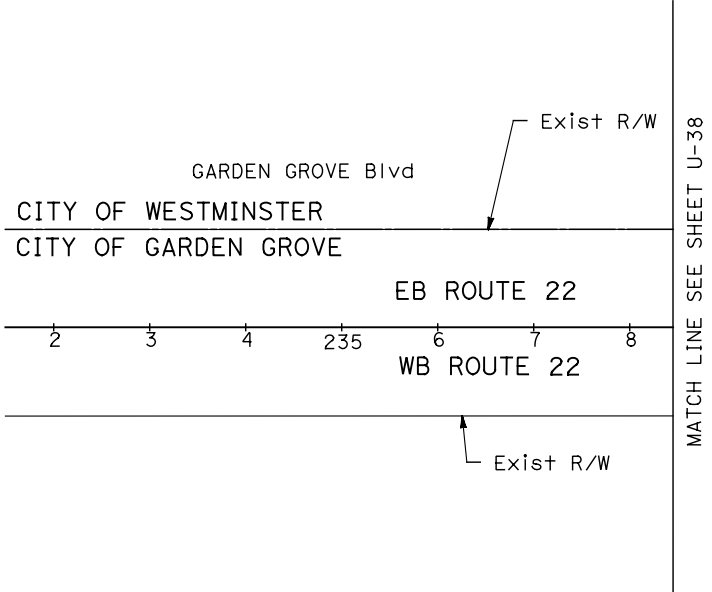
REGISTERED PROFESSIONAL ENGINEER

No. _____

Exp. _____

CIVIL

STATE OF CALIFORNIA



UTILITY
U-39
SCALE 1"=100'

K2: Utility Conflict Matrix

Notes:

1. Line to be encased up to and 5’ beyond approach slab.
2. Matrix Legend

A Construction by utility owner

B Construction shared by utility owner and OCTA

C Construction by OCTA

D Design by utility owner

E Design by OCTA

F Caltrans master Agreement

G Franchise, License, Permit

H 50-50 cost share

I 100% OCTA

J 100% utility owner

Dist

COUNTY

ROUTE

POST MILES TOTAL PROJECT

SHEET No.

TOTAL SHEETS

12,7

Oran,LA

22,73,405,605

R0.5/R0.7,R0.7/R3.8
R27.2/R27.8,9.3/24.2
0.0/1.2,3.5/R1.6,R0.9/R1.2

REGISTERED CIVIL ENGINEER

DATE

PLANS APPROVAL DATE

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PARSONS
2201 DUPONT DRIVE
SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863

REGISTERED PROFESSIONAL ENGINEER

No.

Exp.

CIVIL

STATE OF CALIFORNIA

I-405 EIR/EIS - Utility Conflict Matrix

	Conflict No.	U-Sheet No.	Utility Owner	Type	Caltrans High Risk	Caltrans Low Risk	Description	Location	Crossing	Station (Begin Station)	Station (End Station)	Esmt	Util Within ROW	Unit Cost	Alternative 1				Alternative 2				Alternative 3				Disposition	Conflicting Facility	Physical Relocation Responsibility	Design Responsibility	Party Responsible for Relocation Cost
															LF	State Share	Utility Owner Share	Total Cost	LF	State Share	Utility Owner Share	Total Cost	LF	State Share	Utility Owner Share	Total Cost					
1	1349	U-6A	Qwest	Communication	-	-	4-4" ducts	Along Harbor Blvd crossing I-405	Perpendicular	607+00	-	No	Yes	Lump Sum								70	0	\$30,000	\$30,000	Extend encasement to improvement limits	Highway widening and potential impact by bridge improvements	C	E	J	
2	4629	U-2	Fountain Valley	Water	-	-	12" DIP	East of Santa Ana River crossing I-405	Perpendicular	654+00	-	Yes	-	Lump Sum	125	\$60,000	0	\$60,000	125	\$60,000	0	\$60,000	125	\$60,000	0	\$60,000	Extend encasement to ROW	Highway widening and potential impact by ramp improvements	C	E	I
3	4700	U-2	OCWD	Communication	-	-	Fiber Optic	Along Ellis Ave	Offset	662+00	668+00	Yes	-	\$330	230	\$75,900	0	\$75,900	230	\$75,900	0	\$75,900	230	\$75,900	0	\$75,900	Relocate outside of conflicting area	Impact by ramp improvements	C	E	I
4	4701	U-2	OCWD	Power	√	-	480 V	Along Ellis Ave	Offset	662+00	668+00	Yes	-	\$440	910	\$400,400	0	\$400,400	910	\$400,400	0	\$400,400	910	\$400,400	0	\$400,400	Relocate outside of conflicting area	Impact by ramp improvements	C	E	I
5	4702	U-2	OCWD	Water	-	-	8" DIP	Along Ellis Ave	Offset	662+00	668+00	Yes	-	\$330	200	\$66,000	0	\$66,000	200	\$66,000	0	\$66,000	200	\$66,000	0	\$66,000	Relocate outside of conflicting area	Impact by ramp improvements	C	E	I
6	4654	U-2	OCWD	Water	-	-	12" ACP	Along Ellis Ave	Offset	660+50	666+00	Yes	-	\$330	525	\$173,250	0	\$173,250	525	\$173,250	0	\$173,250	525	\$173,250	0	\$173,250	Relocate outside of conflicting area	Impact by ramp improvements	C	E	I
7	4655	U-2	Fountain Valley	Water	-	-	16"	Along Ellis Ave	Offset	660+50	662+00	Yes	-	\$330	150	\$49,500	0	\$49,500	150	\$49,500	0	\$49,500	150	\$49,500	0	\$49,500	Relocate outside of conflicting area	Impact by ramp improvements	C	E	I
8	4656	U-2	SCG	Gas	-	√	4"	Along Ellis Ave	Offset	660+00	662+00	No	No	\$440	265	\$58,300	\$58,300	\$116,600	265	\$58,300	\$58,300	\$116,600	265	\$58,300	\$58,300	\$116,600	Relocate outside of conflicting area	Impact by ramp improvements	A	D	H
9	2091 2092 2093	U-2	SCE	Power	-	-	66 kV OH and 12 kV OH	Between Santa Ana River and Euclid St crossing I-405	Perpendicular	66450	-	Yes	-	\$330	200	\$198,000	0	\$198,000	200	\$198,000	0	\$198,000	200	\$198,000	0	\$198,000	Relocate Underground	Impact by ramp improvements	A	D	I
10																															
11																															
12	5005	U-2	SCE	Power Transmission	√	-	66 kV OH	Along Ellis Ave	Offset	664+50	680+00	Yes	-	\$330	1,960	\$646,800	0	\$646,800	1,960	\$646,800	0	\$646,800	1,960	\$646,800	0	\$646,800	Relocate outside of conflicting area	Impact by ramp improvements	A	D	I
13	5006	U-2	SCE	Power	√	-	12 kV OH	Along Ellis Ave	Offset	664+50	680+00	Yes	-	Lump Sum	1,960	\$1,212,500	0	\$1,212,500	1,960	\$1,212,500	0	\$1,212,500	1,960	\$1,212,500	0	\$1,212,500	Relocate outside of conflicting area	Impact by ramp improvements	A	D	I
14	5007	U-2	SCE	Power	-	-	SCE Telcom	Along Ellis Ave	Offset	664+50	680+00	Yes	-	\$330	1,960	\$646,800	0	\$646,800	1,960	\$646,800	0	\$646,800	1,960	\$646,800	0	\$646,800	Relocate outside of conflicting area	Impact by ramp improvements	A	D	I
15	1020	U-2	Fountain Valley	Water	-	-	12"	West of Euclid St crossing I-405	Perpendicular	665+50	-	Yes	-	\$330	150	\$49,500	0	\$49,500	150	\$49,500	0	\$49,500	150	\$49,500	0	\$49,500	Extend encasement to improvement limits	Highway widening and potential impact by ramp improvements	C	E	I
16	4406	U-2	OCSD	Sewer	-	-	42" RCP	West of Euclid St crossing I-405	Perpendicular	665+00	-	Yes	-	\$330	150	\$49,500	0	\$49,500	150	\$49,500	0	\$49,500	150	\$49,500	0	\$49,500	Extend encasement to improvement limits	Highway widening and potential impact by ramp improvements	C	E	I
17	2075	U-4	SCE	Power	-	-	12 kV OH	East of Ward St crossing I-405	Perpendicular	694+00	-	No	No	Lump Sum	1,600	0	\$400,000	\$400,000	1,600	0	\$400,000	\$400,000	1,600	0	\$400,000	\$400,000	Relocate outside of conflicting area	Bridge reconstruction	C	E	J

UTILITY
U-40

Notes:

1. Line to be encased up to and 5' beyond approach slab.

2. Matrix Legend

A	Construction by utility owner
B	Construction shared by utility owner and OCTA
C	Construction by OCTA
D	Design by utility owner
E	Design by OCTA
F	Caltrans master Agreement
G	Franchise, License, Permit
H	50-50 cost share
I	100% OCTA
J	100% utility owner

Dist

COUNTY

ROUTE

POST MILES TOTAL PROJECT

SHEET No.

TOTAL SHEETS

12,7

Ora,LA

22,73,405,605

R0.5/R0.7,R0.7/R3.8
R27.2/R27.8,9.3/24.2
0.0/1.2,3.5/R1.6,R0.9/R1.4

REGISTERED CIVIL ENGINEER

DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER

No.

Exp.

CIVIL

STATE OF CALIFORNIA

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PARSONS

2201 DUPONT DRIVE

SUITE 200

IRVINE, CA 92612

ORANGE COUNTY

TRANSPORTATION AUTHORITY

550 SOUTH MAIN STREET

ORANGE, CA 92863

I-405 EIR/EIS - Utility Conflict Matrix

Conflict No.	U-Sheet No.	Utility Owner	Type	Caltrans High Risk	Caltrans Low Risk	Description	Location	Crossing	Station (Begin Station)	Station (End Station)	Esmt	Util Within ROW	Unit Cost	Alternative 1				Alternative 2				Alternative 3				Disposition	Conflicting Facility	Physical Relocation Responsibility	Design Responsibility	Party Responsible for Relocation Cost	
														LF	State Share	Utility Owner Share	Total Cost	LF	State Share	Utility Owner Share	Total Cost	LF	State Share	Utility Owner Share	Total Cost						
18	1327	U-4	Fountain Valley	Water	-	-	12" DIP	In Ward St Bridge crossing I-405	Perpendicular	695+00	-	No	No	\$330	1,000	0	\$330,000	\$330,000	1,000	0	\$330,000	\$330,000	1,000	0	\$330,000	\$330,000	Relocate into new bridge	Bridge reconstruction	C	E	J
19	2077	U-4	SCE	Power	✓	-	12 kV OH	Along Ward St	Offset	698+00	-	Yes	-	Lump Sum	400	\$50,000	0	\$50,000	400	\$50,000	0	\$50,000	400	\$50,000	0	\$50,000	Relocate outside of conflicting area	Potential impact by street improvements	A	D	I
20	2078	U-4	SCE	Power	✓	-	12 kV OH	Along Talbert Ave	Offset	698+00	-	Yes	-	Lump Sum	250	\$50,000	0	\$50,000	250	\$50,000	0	\$50,000	250	\$50,000	0	\$50,000	Relocate outside of conflicting area	Potential impact by street improvements	A	D	I
21	1016	U-5	Fountain Valley	Water	-	-	12"	East of Talbert Ave crossing I-405	Perpendicular	706+00	-	Yes	-	\$330	575	\$189,750	0	\$189,750	575	\$189,750	0	\$189,750	575	\$189,750	0	\$189,750	Extend encasement to improvement limits	Highway widening and potential impact by ramp and street improvements	C	E	I
22	1324	U-5	Fountain Valley	Water	-	-	12" DIP	East of Talbert Ave crossing I-405	Perpendicular	707+00	-	Yes	-	Lump Sum	150	\$60,000	0	\$60,000	150	\$60,000	0	\$60,000	150	\$60,000	0	\$60,000	Extend encasement to improvement limits	Highway widening	C	E	I
23	2076	U-5	SCE	Power	✓	-	12 kV OH	West of Talbert Ave bridge crossing I-405	Perpendicular	709+00	-	No	Yes	Lump Sum	1,700	\$225,000	\$225,000	\$450,000	1,700	\$225,000	\$225,000	\$450,000	1,700	\$225,000	\$225,000	\$450,000	Relocate outside of conflicting area	Bridge reconstruction	A	D	H
24	1015	U-6	Fountain Valley	Water	-	-	12"	West of Brookhurst St crossing I-405	Perpendicular	730+00	-	Yes	-	\$330	715	\$235,950	0	\$235,950	715	\$235,950	0	\$235,950	715	\$235,950	0	\$235,950	Extend encasement to improvement limits	Highway widening and potential impact by ramp improvements	C	E	I
25	4602	U-7	Fountain Valley	Water	-	-	12" DIP	West of Brookhurst St south of and along I-405	Parallel	745+00	747+00	Yes	-	Lump Sum					130	\$60,000	0	\$60,000	130	\$60,000	0	\$60,000	Provide encasement underneath new highway	Highway widening	C	E	I
26	1014	U-7	Fountain Valley	Water	-	-	12"	In Slater Blvd bridge crossing I-405	Perpendicular	746+00	-	No	Yes	\$330	1,000	0	\$330,000	\$330,000	1,000	0	\$330,000	\$330,000	1,000	0	\$330,000	\$330,000	Relocate into new bridge	Bridge reconstruction	C	E	J
27	1022	U-7	Fountain Valley	Sewer	-	-	18"	In Bushard St Bridge crossing I-405	Perpendicular	766+00	-	No	Yes	\$440	1,100	0	\$484,000	\$484,000	1,100	0	\$484,000	\$484,000	1,100	0	\$484,000	\$484,000	Replace in kind into new bridge	Bridge reconstruction	C	E	J
28	1023	U-7	Fountain Valley	Sewer	-	-	10"	In Bushard St Bridge crossing I-405	Perpendicular	766+00	-	No	Yes	\$440	1,200	0	\$528,000	\$528,000	1,200	0	\$528,000	\$528,000	1,200	0	\$528,000	\$528,000	Replace in kind into new bridge	Bridge reconstruction	C	E	J
29	5000	U-8	SCE	Power Transmission	✓	-	66 kV OH	East of Warner Ave bridge crossing I-405	Perpendicular	782+00	-	Yes	-	Lump Sum	1,250	\$450,000	0	\$450,000	1,250	\$450,000	0	\$450,000	1,250	\$450,000	0	\$450,000	Relocate outside of conflicting area	Bridge reconstruction	A	D	I
30	2081	U-8	SCE	Power	✓	-	12 kV UG	In Warner Ave bridge crossing I-405	Perpendicular	782+00	-	No	Yes	Lump Sum	1,380	\$171,875	\$171,875	\$343,750	1,380	\$171,875	\$171,875	\$343,750	1,380	\$171,875	\$171,875	\$343,750	Replace in kind into new bridge	Bridge reconstruction	A	D	H
31	1122	U-8	Verizon	Cell	-	-	Buried Cable	In Warner Ave bridge crossing I-405	Perpendicular	782+50	-	No	Yes	Lump Sum	1,150	0	\$375,000	\$375,000	1,150	0	\$375,000	\$375,000	1,150	0	\$375,000	\$375,000	Relocate into new bridge	Bridge reconstruction	B	D	J
32	1120	U-8	Verizon	Cell	-	-	Buried Cable	In Warner Ave bridge crossing I-405	Perpendicular	783+00	-	No	Yes	Lump Sum	1,465	0	\$375,000	\$375,000	1,465	0	\$375,000	\$375,000	1,465	0	\$375,000	\$375,000	Relocate into new bridge	Bridge reconstruction	B	D	J
33	1012	U-8	Fountain Valley	Water	-	-	16"	West of Warner Ave crossing I-405	Perpendicular	784+50	-	Yes	-	\$330	850	\$280,500	0	\$280,500	850	\$280,500	0	\$280,500	850	\$280,500	0	\$280,500	Extend encasement to ROW	Highway widening and potential impact by ramp and street improvements	C	E	I
34	1021	U-8	Fountain Valley	Sewer	-	-	12" VCP	East of Magnolia crossing I-405	Perpendicular	794+50	-	Yes	-	Lump Sum	115	\$40,000	0	\$40,000	115	\$40,000	0	\$40,000	115	\$40,000	0	\$40,000	Relocate outside of conflicting area	Potential impact by ramp improvements	C	E	I

UTILITY
U-41

BORDER LAST REVISED 7/2/2010

USERNAME => p0026525
DGN FILE => ALT 3 UTILITY PLAN Sheets.dgn

RELATIVE BORDER SCALE IS IN INCHES

0123

UNIT 2994

PROJECT NUMBER & PHASE

12000001800

LAST REVISION | DATE PLOTTED => 11/9/2011
00-00-00 | TIME PLOTTED => 10:43:40 AM

Notes:

1. Line to be encased up to and 5' beyond approach slab.
2. Matrix Legend

A Construction by utility owner

B Construction shared by utility owner and OCTA

C Construction by OCTA

D Design by utility owner

E Design by OCTA

F Caltrans master Agreement

G Franchise, License, Permit

H 50-50 cost share

I 100% OCTA

J 100% utility owner

Dist

COUNTY

ROUTE

POST MILES TOTAL PROJECT

SHEET No.

TOTAL SHEETS

12,7

Oran,LA

22,73,405,605

R0.5/R0.7,R0.7/R3.8
R27.2/R27.8,9.3/24.2
0.0/1.2,3.5/R1.6,R0.9/R1.2

REGISTERED CIVIL ENGINEER

DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER

No.

Exp.

CIVIL

STATE OF CALIFORNIA

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PARSONS

2201 DUPONT DRIVE

SUITE 200

IRVINE, CA 92612

ORANGE COUNTY TRANSPORTATION AUTHORITY

550 SOUTH MAIN STREET

ORANGE, CA 92863

I-405 EIR/EIS - Utility Conflict Matrix

Conflict No.	U-Sheet No.	Utility Owner	Type	Caltrans High Risk	Caltrans Low Risk	Description	Location	Crossing	Station (Begin Station)	Station (End Station)	Esmt	Util Within ROW	Unit Cost	Alternative 1				Alternative 2				Alternative 3				Disposition	Conflicting Facility	Physical Relocation Responsibility	Design Responsibility	Party Responsible for Relocation Cost	
														LF	State Share	Utility Owner Share	Total Cost	LF	State Share	Utility Owner Share	Total Cost	LF	State Share	Utility Owner Share	Total Cost						
35	4352	U-9	SCE	Power	√	-	12 kV OH	Along Magnolia St	Offset	792+00	796+00	Yes	-	Lump Sum	710	\$200,000	0	\$200,000	710	\$200,000	0	\$200,000	710	\$200,000	0	\$200,000	Relocate outside of conflicting area	Potential impact by street improvements	A	D	I
36	1011	U-10	Fountain Valley	Water	-	-	12"	West of Magnolia St crossing I-405	Perpendicular	803+00	-	Yes	-	\$330	480	\$158,400	0	\$158,400	480	\$158,400	0	\$158,400	480	\$158,400	0	\$158,400	Extend encasement to improvement limits	Highway widening and potential impact by ramp improvements	C	E	I
37	4345	U-10	SCE	Power	√	-	12 kV OH	West of Magnolia St along south of I-405	Parallel	817+00	821+00	No	No	Lump Sum	370	\$25,000	\$25,000	\$50,000	370	\$25,000	\$25,000	\$50,000	370	\$25,000	\$25,000	\$50,000	Relocate outside of conflicting area	Highway widening and pedestrian bridge reconstruction	A	D	H
38	4604	U-10	SCE	Power	√	-	12 kV OH	West of Magnolia St along north of I-406	Parallel	818+00	822+00	No	No	Lump Sum	405	\$25,000	\$25,000	\$50,000	405	\$25,000	\$25,000	\$50,000	405	\$25,000	\$25,000	\$50,000	Relocate outside of conflicting area	Highway widening and pedestrian bridge reconstruction	A	D	H
39	2082	U-10	SCE	Power	-	-	12 kV OH	Heil Ave crossing I-405	Perpendicular	819+00	-	No	No	Lump Sum	450	\$125,000	\$125,000	\$250,000	450	\$125,000	\$125,000	\$250,000	450	\$125,000	\$125,000	\$250,000	Relocate outside of conflicting area	Highway widening and pedestrian bridge reconstruction	A	D	H
40	1108	U-10	Westminster	Water	-	-	8" AC	Heil Ave crossing I-405	Perpendicular	819+50	-	Yes	-	Lump Sum	150	\$60,000	0	\$60,000	150	\$60,000	0	\$60,000	150	\$60,000	0	\$60,000	Provide encasement underneath new highway	Highway widening and pedestrian bridge reconstruction	C	E	I
41	1129	U-10	Midway City Sanitation District	Sewer	-	-	10" VCP	Heil Ave crossing I-405	Perpendicular	819+50	-	Yes	-	Lump Sum	185	\$60,000	0	\$60,000	185	\$60,000	0	\$60,000	185	\$60,000	0	\$60,000	Provide encasement underneath new highway	Highway widening and pedestrian bridge reconstruction	C	E	I
42	4353	U-10	TWC	CATV	-	-	TV	Heil Ave	Offset	820+00	-	Yes	-	\$330	405	\$133,650	0	\$133,650	405	\$133,650	0	\$133,650	405	\$133,650	0	\$133,650	Relocate outside of conflicting area	Highway widening and pedestrian bridge reconstruction	C	E	I
43	4354	U-10	TWC	CATV	-	-	TV	Venus Drive	Offset	820+00	-	Yes	-	\$330	370	\$122,100	0	\$122,100	370	\$122,100	0	\$122,100	370	\$122,100	0	\$122,100	Relocate outside of conflicting area	Highway widening and pedestrian bridge reconstruction	C	E	I
44	1106	U-11	WOCWB	Water	-	-	22" CI	In Newland St bridge crossing I-405	Perpendicular	840+00	-	No	No	\$330	1,250	0	\$412,500	\$412,500	1,250	0	\$412,500	\$412,500	1,250	0	\$412,500	\$412,500	Relocate into new bridge	Bridge reconstruction	C	E	J
45	1175	U-11	Verizon	Telephone	-	-	4-4" ducts	West of Newland St crossing I-405	Perpendicular	840+50	-	Yes	-	Lump Sum	110	0	\$500,000	\$500,000	110	0	\$500,000	\$500,000	110	0	\$500,000	\$500,000	Extend encasement to ROW	Highway widening	C	E	J
46	2043	U-12	SCE	Power	√	-	12 kV UG	In Edinger Ave bridge crossing I-405	Perpendicular	859+00	-	No	No	Lump Sum	1,000	\$140,625	\$140,625	\$281,250	1,000	\$140,625	\$140,625	\$281,250	1,000	\$140,625	\$140,625	\$281,250	Relocate into new bridge	Bridge reconstruction	A	D	H
47	2040	U-12	SCE	Power	√	-	12 kV UG	Along Beach Blvd	Offset	875+00	890+00	No	No	Lump Sum	1,350	\$187,500	\$187,500	\$375,000	1,350	\$187,500	\$187,500	\$375,000	1,350	\$187,500	\$187,500	\$375,000	Relocate outside of conflicting area	Bridge reconstruction	A	D	H
48	1102	U-16	Westminster	Water	-	-	12" Steel	Under Bolsa Ave bridge crossing I-405	Perpendicular	936+50	-	No	No	\$330	1,050	0	\$346,500	\$346,500	1,050	0	\$346,500	\$346,500	1,050	0	\$346,500	\$346,500	Relocate into new bridge	Bridge reconstruction	C	E	J
49	4637	U-16	Verizon	Telephone	-	-	4-4" ducts	In Bolsa Ave bridge crossing I-405	Perpendicular	937+00	-	No	No	Lump Sum	1,100	0	\$700,000	\$700,000	1,100	0	\$700,000	\$700,000	1,100	0	\$700,000	\$700,000	Relocate into new bridge	Bridge reconstruction	C	E	J
50	4611	U-16	SCE	Power	√	-	12 kV UG	Between Bolsa Ave and Goldenwest St north of and along I-405	Parallel	939+00	947+00	No	Yes	Lump Sum	860	\$118,750	\$118,750	\$237,500	860	\$118,750	\$118,750	\$237,500	860	\$118,750	\$118,750	\$237,500	Relocate outside of conflicting area	Highway widening	A	D	H
51	4610	U-16	SCE	Power	√	-	12 kV OH	West of Bolsa Ave along I-405	Parallel	940+00	-	No	No	Lump Sum	380	\$50,000	\$50,000	\$100,000	380	\$50,000	\$50,000	\$100,000	380	\$50,000	\$50,000	\$100,000	Relocate outside of conflicting area	Highway widening	A	D	H

UTILITY
U-42

BORDER LAST REVISED 7/2/2010

USERNAME => p0026525
DGN FILE => ALT 3 UTILITY PLAN Sheets.dgn

RELATIVE BORDER SCALE
IS IN INCHES

0 1 2 3

UNIT 2994

PROJECT NUMBER & PHASE

12000001800

LAST REVISION DATE PLOTTED => 11/9/2011
00-00-00 TIME PLOTTED => 10:43:23 AM

Notes:

1. Line to be encased up to and 5' beyond approach slab.
2. Matrix Legend

- A Construction by utility owner
- B Construction shared by utility owner and OCTA
- C Construction by OCTA
- D Design by utility owner
- E Design by OCTA
- F Caltrans master Agreement
- G Franchise, License, Permit
- H 50-50 cost share
- I 100% OCTA
- J 100% utility owner

Dist

COUNTY

ROUTE

POST MILES TOTAL PROJECT

SHEET No.

TOTAL SHEETS

12,7

Oran,LA

22,73,405,605

R0.5/R0.7,R0.7/R3.8,R27.2/R27.8,9.3/24.2,0.0/1.2,3.5/R1.6,R0.9/R1.2

REGISTERED CIVIL ENGINEER

DATE

PLANS APPROVAL DATE

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No.

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PARSONS

2201 DUPONT DRIVE

SUITE 200

IRVINE, CA 92612

ORANGE COUNTY TRANSPORTATION AUTHORITY

550 SOUTH MAIN STREET

ORANGE, CA 92863

I-405 EIR/EIS - Utility Conflict Matrix

Conflict No.	U-Sheet No.	Utility Owner	Type	Caltrans High Risk	Caltrans Low Risk	Description	Location	Crossing	Station (Begin Station)	Station (End Station)	Esmt	Util Within ROW	Unit Cost	Alternative 1				Alternative 2				Alternative 3				Disposition	Conflicting Facility	Physical Relocation Responsibility	Design Responsibility	Party Responsible for Relocation Cost	
														LF	State Share	Utility Owner Share	Total Cost	LF	State Share	Utility Owner Share	Total Cost	LF	State Share	Utility Owner Share	Total Cost						
52	1201	U-16	SCG	Gas	√	-	16"	West of Bolsa Ave crossing I-405	Perpendicular	940+50	-	No	No	\$440	1,200	\$132,000	\$132,000	\$264,000	1,200	\$132,000	\$132,000	\$264,000	1,200	\$132,000	\$132,000	\$264,000	Relocate into new bridge	Bridge reconstruction	A	D	H
53	2026	U-16	SCE	Power	-	-	12 kV OH	East of Goldenwest St crossing I-405	Perpendicular	944+00	-	No	No	Lump Sum	305	\$100,000	\$100,000	\$200,000	305	\$100,000	\$100,000	\$200,000	305	\$100,000	\$100,000	\$200,000	Relocate outside of conflicting area	Highway widening	A	D	H
54	4328	U-16	SCE	Power	-	-	12 kV OH	East of Goldenwest St crossing I-405	Perpendicular	944+00	-	No	No	\$330	305	\$50,325	\$50,325	\$100,650	305	\$50,325	\$50,325	\$100,650	305	\$50,325	\$50,325	\$100,650	Relocate outside of conflicting area	Highway widening	A	D	H
55	4330	U-16	TWC	CATV	-	-	TV	East of Goldenwest St crossing I-406	Perpendicular	944+01	-	No	No	\$330	305	\$50,325	\$50,325	\$100,650	305	\$50,325	\$50,325	\$100,650	305	\$50,325	\$50,325	\$100,650	Relocate outside of conflicting area	Highway widening	A	D	H
56	4616	U-16	Westminster	Water	-	-	12" DIP	West of Goldenwest St. north of and along I-405	Parallel	946+00	954+00	Yes	-	\$330	1,050	\$346,500	0	\$346,500	1,050	\$346,500	0	\$346,500	1,050	\$346,500	0	\$346,500	Relocate outside of conflicting area	Highway widening and potential impact by ramp improvements	C	E	I
57	1007	U-16	Chevron	Oil	√	-	8"	In Goldenwest St bridge crossing I-405	Perpendicular	947+50	-	Yes	-	\$550	1,000	\$275,000	\$275,000	\$550,000	1,000	\$275,000	\$275,000	\$550,000	1,000	\$275,000	\$275,000	\$550,000	Relocate into new bridge	Bridge reconstruction	A	D	H
58	1008	U-16	Chevron	Oil	√	-	8"	In Goldenwest St bridge crossing I-405	Perpendicular	947+50	-	Yes	-	\$550	1,000	\$275,000	\$275,000	\$550,000	1,000	\$275,000	\$275,000	\$550,000	1,000	\$275,000	\$275,000	\$550,000	Relocate into new bridge	Bridge reconstruction	A	D	H
59	1009	U-16	Chevron	Oil	√	-	6"	In Goldenwest St bridge crossing I-405	Perpendicular	947+50	-	Yes	-	\$550	1,000	\$275,000	\$275,000	\$550,000	1,000	\$275,000	\$275,000	\$550,000	1,000	\$275,000	\$275,000	\$550,000	Relocate into new bridge	Bridge reconstruction	A	D	H
60	1430	U-16	Verizon	Telephone	-	-	35"	In Goldenwest St bridge crossing I-405	Perpendicular	948+00	-	No	No	Lump Sum	925	0	\$1,800,000	\$1,800,000	925	0	\$1,800,000	\$1,800,000	925	0	\$1,800,000	\$1,800,000	Relocate into new bridge	Bridge reconstruction	C	E	J
61	1101	U-16	Westminster	Water	-	-	10" AC	In Goldenwest St bridge crossing I-405	Perpendicular	949+00	-	No	No	\$330	1,075	0	\$354,750	\$354,750	1,075	0	\$354,750	\$354,750	1,075	0	\$354,750	\$354,750	Relocate into new bridge	Bridge reconstruction	C	E	J
62	4615	U-16	Westminster	Water	-	-	12" DIP	West of Goldenwest St. south of and along I-405	Parallel	950+00	-	Yes	-	\$330	450	\$148,500	0	\$148,500	450	\$148,500	0	\$148,500	450	\$148,500	0	\$148,500	Relocate outside of conflicting area	Highway widening and potential impact by ramp improvements	C	E	I
63	1200	U-16	SCG	Gas	√	-	16"	West of Goldenwest St. along off ramp and crossing I-405	Perpendicular	950+50	-	No	Yes	\$440	1,300	\$286,000	\$286,000	\$572,000	1,300	\$286,000	\$286,000	\$572,000	1,300	\$286,000	\$286,000	\$572,000	Relocate into new bridge	Bridge reconstruction	A	D	H
64	1196	U-16	Paramont Petroleum	Oil	√	-	6"	West of Goldenwest St crossing I-405	Perpendicular	951+00	-	Yes	-	Lump Sum	130	\$60,000	0	\$60,000	130	\$60,000	0	\$60,000	130	\$60,000	0	\$60,000	Extend encasement to ROW	Highway widening and potential impact by ramp improvements	A	D	I
65	1197	U-16	Paramont Petroleum	Oil	√	-	12"	West of Goldenwest St crossing I-405	Perpendicular	951+00	-	Yes	-	Lump Sum	130	\$60,000	0	\$60,000	130	\$60,000	0	\$60,000	130	\$60,000	0	\$60,000	Extend encasement to ROW	Highway widening and potential impact by ramp improvements	A	D	I
66	1431	U-16	Westminster	Water	-	-	2"	West of Goldenwest St crossing I-405	Perpendicular	951+50	-	Yes	-	\$330	250	\$82,500	0	\$82,500	250	\$82,500	0	\$82,500	250	\$82,500	0	\$82,500	Relocate as part of a relocation of a system	Highway widening and potential impact by ramp improvements and	C	E	I
67	4617	U-17	SCE	Power	√	-	12 kV OH	West of Goldenwest St. north of and along I-405	Parallel	955+00	963+50	No	Yes	Lump Sum					825	\$175,000	\$175,000	\$350,000	825	\$175,000	\$175,000	\$350,000	Relocate outside of conflicting area	Highway widening	A	D	H
68	4638	U-17	Westminster	Water	-	-	12" DIP	West of Goldenwest St. south of and along I-405	Parallel	965+50	977+00	Yes	-	\$330					1,150	\$379,500	0	\$379,500	1,150	\$379,500	0	\$379,500	Relocate outside of conflicting area	Highway widening	C	E	I

UTILITY
U-43

BORDER LAST REVISED 7/2/2010

USERNAME => p0026525
DGN FILE => ALT 3 UTILITY PLAN Sheets.dgn

RELATIVE BORDER SCALE
IS IN INCHES

0 1 2 3

UNIT 2994

PROJECT NUMBER & PHASE

12000001800

LAST REVISION | DATE PLOTTED => 11/9/2011
00-00-00 | TIME PLOTTED => 10:43:01 AM

x

Subtrans®

A	Construction by utility owner
B	Construction shared by utility owner and OCTA
C	Construction by OCTA
D	Design by utility owner
E	Design by OCTA
F	Caltrans master Agreement
G	Franchise, License, Permit
H	50-50 cost share
I	100% OCTA
J	100% utility owner

I-405 EIR/EIS - Utility Conflict Matrix

	Conflict No.	U-Sheet No.	Utility Owner	Type	Caltrans High Risk	Caltrans Low Risk	Description	Location	Crossing	Station (Begin Station)	Station (End Station)	Esmt	Util Within ROW	Unit Cost	Alternative 1				Alternative 2				Alternative 3				Disposition	Conflicting Facility	Physical Relocation Responsibility	Design Responsibility	Party Responsible for Relocation Cost
															LF	State Share	Utility Owner Share	Total Cost	LF	State Share	Utility Owner Share	Total Cost	LF	State Share	Utility Owner Share	Total Cost					
69	4618	U-17	Westminster	Water	-	-	12" DIP	West of Goldenwest St, south of and along I-405	Parallel	966+00	977+00	Yes	-	\$330					1,060	\$349,800	0	\$349,800	1,060	\$349,800	0	\$349,800	Relocate outside of conflicting area	Highway widening	C	E	I
70	1440	U-17	Westminster	Water	-	-	12" DIP	Between Goldenwest St and Edward St crossing I-405	Perpendicular	968+00	-	Yes	-	\$330	225	\$74,250	0	\$74,250	225	\$74,250	0	\$74,250	225	\$74,250	0	\$74,250	Relocate as part of a relocation of a system	Highway widening	C	E	I
71	1120	U-18	Verizon	Telephone	-	-	4-4" ducts	In Edward St bridge crossing I-405	Perpendicular	982+50	-	No	No	Lump Sum	935	0	\$1,200,000	\$1,200,000	935	0	\$1,200,000	\$1,200,000	935	0	\$1,200,000	\$1,200,000	Relocate into new bridge	Bridge reconstruction	C	E	J
72	1123	U-18	Verizon	Cell	-	-	Buried Cable	West of Edward St crossing I-405	Perpendicular	985+00	-	No	No	Lump Sum	75	0	\$30,000	\$30,000	75	0	\$30,000	\$30,000	75	0	\$30,000	\$30,000	Extend encasement to ROW	Highway widening and wall construction	B	D	J
73	1096	U-18	Westminster	Water	-	-	8" Steel	West of Edward St crossing I-405	Perpendicular	985+50	-	Yes	-	Lump Sum	125	\$60,000	0	\$60,000	125	\$60,000	0	\$60,000	125	\$60,000	0	\$60,000	Extend encasement to ROW	Highway widening and wall construction	C	E	I
74	1449	U-18	Westminster	Water	-	-	10"	West of Edward St crossing I-405	Perpendicular	985+50	-	Yes	-	Lump Sum	125	\$60,000	0	\$60,000	125	\$60,000	0	\$60,000	125	\$60,000	0	\$60,000	Extend encasement to ROW	Highway widening and wall construction	C	E	I
75	2020	U-18	SCE	Power	-	-	12 kV OH	Along Edward St	Perpendicular	986+00	-	No	No	Lump Sum	450	\$150,000	0	\$150,000	450	\$150,000	0	\$150,000	450	\$150,000	0	\$150,000	Relocate outside of conflicting area	Bridge reconstruction	A	D	I
76	4640	U-18	Verizon	Cell	-	-	Buried Cable	West of Edward St crossing I-405	Perpendicular	986+00	-	No	No	Lump Sum	125	0	\$30,000	\$30,000	125	0	\$30,000	\$30,000	125	0	\$30,000	\$30,000	Extend encasement to ROW	Highway widening and wall construction	B	D	J
77	1193	U-18	SCG	Gas	-	√	3"	West of Edward St crossing I-405	Perpendicular	986+00	-	No	Yes	Lump Sum	125	\$15,000	\$15,000	\$30,000	125	\$15,000	\$15,000	\$30,000	125	\$15,000	\$15,000	\$30,000	To be abandoned	Highway widening and wall construction	A	D	H
78	1005	U-18	Verizon	Telephone	-	-	2" PVC	West of Edward St crossing I-405	Perpendicular	986+50	-	No	No	Lump Sum	125	\$15,000	\$15,000	\$30,000	125	\$15,000	\$15,000	\$30,000	125	\$15,000	\$15,000	\$30,000	Extend encasement to ROW	Highway widening and wall construction	B	D	H
79	1454	U-18	Westminster	Sewer	-	-	6"	West of Edward St crossing I-405	Perpendicular	993+00	-	Yes	-	Lump Sum	80	\$40,000	0	\$40,000	80	\$40,000	0	\$40,000	80	\$40,000	0	\$40,000	Extend encasement to ROW	Highway widening and wall construction	C	E	I
80	1091	U-18	Westminster	Water	-	-	8" AC	East of Westminster Blvd crossing I-405	Perpendicular	998+00	-	Yes	-	Lump Sum	35	\$60,000	0	\$60,000	35	\$60,000	0	\$60,000	35	\$60,000	0	\$60,000	Extend encasement to ROW	Highway widening and wall construction	C	E	I
81	1092	U-18	Midway City Sanitation District	Sewer	-	-	8"	East of Westminster Blvd crossing I-405	Perpendicular	1000+00	-	Yes	-	Lump Sum	55	\$40,000	0	\$40,000	55	\$40,000	0	\$40,000	55	\$40,000	0	\$40,000	Extend encasement to ROW	Highway widening	C	E	I
82	1130	U-18	Midway City Sanitation District	Sewer	-	-	8"	East of Westminster Blvd crossing I-405	Perpendicular	1000+00	-	Yes	-	Lump Sum	55	\$40,000	0	\$40,000	55	\$40,000	0	\$40,000	55	\$40,000	0	\$40,000	Extend encasement to ROW	Highway widening	C	E	I
83	1093	U-18	Westminster	Water	-	-	12"	East of Westminster Blvd crossing I-405	Perpendicular	1001+50	-	Yes	-	Lump Sum	50	\$60,000	0	\$60,000	50	\$60,000	0	\$60,000	50	\$60,000	0	\$60,000	Extend encasement to ROW	Highway widening	C	E	I
84	1094	U-18	SCG	Gas	-	√	6"	East of Westminster Blvd crossing I-405	Perpendicular	1002+00	-	Yes	-	Lump Sum	50	\$60,000	0	\$60,000	50	\$60,000	0	\$60,000	50	\$60,000	0	\$60,000	Extend encasement to ROW	Highway widening	C	E	I
85	1202	U-18	SCG	Gas	√	-	10"	East of Westminster Blvd crossing I-405	Perpendicular	1002+00	-	No	Yes	Lump Sum	50	\$15,000	\$15,000	\$30,000	50	\$15,000	\$15,000	\$30,000	50	\$15,000	\$15,000	\$30,000	Extend encasement to ROW	Highway widening	A	D	H

UTILITY

U-44

DATE PLOTTED => 11/9/2011	LAST REVISION
TIME PLOTTED => 10:42:22 AM	00-00-00

Notes:

1. Line to be encased up to and 5' beyond approach slab.
2. Matrix Legend

A Construction by utility owner

B Construction shared by utility owner and OCTA

C Construction by OCTA

D Design by utility owner

E Design by OCTA

F Caltrans master Agreement

G Franchise, License, Permit

H 50-50 cost share

I 100% OCTA

J 100% utility owner

Dist

COUNTY

ROUTE

POST MILES TOTAL PROJECT

SHEET No.

TOTAL SHEETS

12,7

Oran,LA

22,73,405,605

R0.5/R0.7,R0.7/R3.8
R21.2/R21.8,9.3/24.2
0.0/1.2,3.5/R1.6,R0.9/R1.4

REGISTERED CIVIL ENGINEER

DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER

No.

Exp.

CIVIL

STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

PARSONS

2201 DUPONT DRIVE

SUITE 200

IRVINE, CA 92612

ORANGE COUNTY

TRANSPORTATION AUTHORITY

550 SOUTH MAIN STREET

ORANGE, CA 92863

I-405 EIR/EIS - Utility Conflict Matrix

Conflict No.	U-Sheet No.	Utility Owner	Type	Caltrans High Risk	Caltrans Low Risk	Description	Location	Crossing	Station (Begin Station)	Station (End Station)	Emst	Util Within ROW	Unit Cost	Alternative 1				Alternative 2				Alternative 3				Disposition	Conflicting Facility	Physical Relocation Responsibility	Design Responsibility	Party Responsible for Relocation Cost		
														LF	State Share	Utility Owner Share	Total Cost	LF	State Share	Utility Owner Share	Total Cost	LF	State Share	Utility Owner Share	Total Cost							
86	1087	U-19	WOCWB	Water	-	-	10"	East and under Westminster Blvd crossing I-405	Perpendicular	1010+50	-	No	Yes	\$330	185	0	\$61,050	\$61,050	185	0	\$61,050	\$61,050	185	0	\$61,050	\$61,050	Protect with encasement	Highway widening and potential impact by ramp improvements	C	E	J	
87	1088	U-19	Westminster	Water	-	-	10" Steel	East and under Westminster Blvd crossing I-405	Perpendicular	1010+50	-	No	Yes	\$330	185	0	\$61,050	\$61,050	185	0	\$61,050	\$61,050	185	0	\$61,050	\$61,050	Protect with encasement	Highway widening and potential impact by ramp improvements	C	E	J	
88	1089	U-19	Westminster	Water	-	-	10" Steel	East and under Westminster Blvd crossing I-405	Perpendicular	1010+50	-	No	Yes	\$330	185	0	\$61,050	\$61,050	185	0	\$61,050	\$61,050	185	0	\$61,050	\$61,050	Protect with encasement	Highway widening and potential impact by ramp improvements	C	E	J	
89	1459	U-19	Verizon	Telephone	-	-	35"	In Westminster Blvd bridge crossing I-405	Perpendicular	1011+00	-	No	Yes	Lump Sum	900	0	\$1,200,000	\$1,200,000	900	0	\$1,200,000	\$1,200,000	900	0	\$1,200,000	\$1,200,000	Relocate into new bridge	Bridge reconstruction	C	E	J	
90	4643	U-19	SCG	Gas	-	✓	3" HP	In Westminster Blvd bridge crossing I-405	Perpendicular	1012+00	-	No	Yes	\$440	900	0	\$396,000	\$396,000	900	0	\$396,000	\$396,000	900	0	\$396,000	\$396,000	Relocate into new bridge	Bridge reconstruction	C	E	J	
91	1131	U-19	Midway City Sanitation District	Sewer	-	-	8"	In Springdale St bridge crossing I-405	Perpendicular	1024+00	-	No	No	\$440	1,075	0	\$473,000	\$473,000	1,075	0	\$473,000	\$473,000	1,075	0	\$473,000	\$473,000	Replace in kind into new bridge	Bridge reconstruction	C	E	J	
92	2157	U-19	Westminster	Water	-	-	8"	West of Springdale crossing I-405	Perpendicular	1027+00	-	No	No	\$330	500	0	\$165,000	\$165,000	500	0	\$165,000	\$165,000	500	0	\$165,000	\$165,000	Relocate outside of conflicting area	Highway widening and potential impact by ramp improvements	C	E	J	
93	2011	U-21	SCE	Power	✓	-	12 kV OH	West of Springdale St north of and along NB I-405	Parallel	1030+00	1062+00	No	No	Lump Sum	3,200	\$1,050,000	0	\$1,050,000	\$1,050,000	3,200	\$1,050,000	0	\$1,050,000	3,200	\$1,050,000	0	\$1,050,000	Relocate outside of conflicting area	Highway widening	A	D	I
94	2012	U-21	SCE	Power	✓	-	13 kV OH	West of Springdale St north of and along NB I-405	Parallel	1035+00	1052+00	No	No	Lump Sum	1,700	\$500,000	0	\$500,000	\$500,000	1,700	\$500,000	0	\$500,000	1,700	\$500,000	0	\$500,000	Relocate outside of conflicting area	Highway widening	A	D	I
95	1204	U-22	SCG	Gas	✓	-	16" HP WSP	South & along SR-22 east of the I-405	Parallel	1099+00	1197+00	Yes	-	Lump Sum	9,300	\$4,500,000	0	\$4,500,000	\$4,500,000	9,300	\$4,500,000	0	\$4,500,000	9,300	\$4,500,000	0	\$4,500,000	Relocate outside of conflicting area	Highway widening and potential impact by ramp improvements	A	D	I
96	1119	U-22	LBGO	Gas	✓	-	14" HP WSP	South & along SR-22 east of the I-405	Parallel	1099+00	1197+00	Yes	-	Lump Sum	9,300	\$4,500,000	0	\$4,500,000	\$4,500,000	9,300	\$4,500,000	0	\$4,500,000	9,300	\$4,500,000	0	\$4,500,000	Relocate outside of conflicting area	Highway widening and potential impact by ramp improvements	A	D	I
97	4223	U-22	SCE	Power	✓	-	12 kV UG	South of SR-22 Conn	Perpendicular	1097+00	-	No	No	Lump Sum	150	\$30,000	0	\$30,000	\$30,000	150	\$30,000	0	\$30,000	150	\$30,000	0	\$30,000	Extemd Emcase,emt	Highway widening	A	D	I
98	4225	U-22	SCE	Power	✓	-	12 kV UG	South of SR-22 Conn	Perpendicular	1097+50	-	No	No	Lump Sum	150	\$30,000	0	\$30,000	\$30,000	150	\$30,000	0	\$30,000	150	\$30,000	0	\$30,000	Extemd Emcase,emt	Highway widening	A	D	I
99	4036	U-22	Seal Beach	Water	-	-	12" WSP	Within Bolsa Chica channel on east side	Perpendicular	1098+00	-	No	No	Lump Sum	150	\$60,000	0	\$60,000	\$60,000	150	\$60,000	0	\$60,000	150	\$60,000	0	\$60,000	Extemd Emcase,emt	Highway widening	A	D	I
100	4015	U-22	SCE	Power	-	-	12 kV OH	West of Bolsa Chica Rd, north of and along I-405	Parallel	1099+00	1180+00	Yes	Yes	Lump Sum					2,800	\$1,200,000	0	\$1,200,000	2,800	\$1,200,000	0	\$1,200,000	Relocate outside of conflicting area	Highway widening and potential impact by ramp improvements	A	D	I	
101	4042	U-25	SCE	Power	✓	-	12 kV UG	Across I-405	Perpendicular	1150+00	-	No	Yes	\$440	275	\$60,500	\$60,500	\$121,000	275	\$60,500	\$60,500	\$121,000	275	\$60,500	\$60,500	\$121,000	Replace in kind	Highway widening	A	D	H	
102	4043	U-25	SCE	Power	-	-	12 kV OH	South of and along SB I-405	Parallel	1150+00	-	Yes	-	\$330					40	\$13,200	0	\$13,200	40	\$13,200	0	\$13,200	Relocate outside of conflicting area	Highway widening	A	D	I	

UTILITY
U-45

BORDER LAST REVISED 7/2/2010

USERNAME => p0026525
DGN FILE => ALT 3 UTILITY PLAN Sheets.dgn

RELATIVE BORDER SCALE
IS IN INCHES

0 1 2 3

UNIT 2994

PROJECT NUMBER & PHASE

12000001800

LAST REVISION | DATE PLOTTED => 11/9/2011
00-00-00 | TIME PLOTTED => 10:46:30 AM

Notes:

1. Line to be encased up to and 5' beyond approach slab.
2. Matrix Legend

- A Construction by utility owner
- B Construction shared by utility owner and OCTA
- C Construction by OCTA
- D Design by utility owner
- E Design by OCTA
- F Caltrans master Agreement
- G Franchise, License, Permit
- H 50-50 cost share
- I 100% OCTA
- J 100% utility owner

Dist

COUNTY

ROUTE

POST MILES
TOTAL PROJECT

SHEET
No.

TOTAL
SHEETS

12,7

Oran,LA

22,73,
405,605

R0.5/R0.7,R0.7/R3.8
R27.2/R27.8,9.3/24.2
0.0/1.2,3.5/R1.6,R0.9/R1.2

REGISTERED CIVIL ENGINEER

DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER

No.

Exp.

CIVIL

STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS
OR AGENTS SHALL NOT BE RESPONSIBLE FOR
THE ACCURACY OR COMPLETENESS OF SCANNED
COPIES OF THIS PLAN SHEET.

PARSONS
2201 DUPONT DRIVE
SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863

I-405 EIR/EIS - Utility Conflict Matrix

Conflict No.	U-Sheet No.	Utility Owner	Type	Caltrans High Risk	Caltrans Low Risk	Description	Location	Crossing	Station (Begin Station)	Station (End Station)	Esmt	Util Within ROW	Unit Cost	Alternative 1				Alternative 2				Alternative 3				Disposition	Conflicting Facility	Physical Relocation Responsibility	Design Responsibility	Party Responsible for Relocation Cost	
														LF	State Share	Utility Owner Share	Total Cost	LF	State Share	Utility Owner Share	Total Cost	LF	State Share	Utility Owner Share	Total Cost						
103	4044	U-25	SCE	Power	√	-	12 kV UG	Perpendicular to south side of SB I-405	Perpendicular	1150+00	-	Yes	-	\$440					60	\$26,400	0	\$26,400	60	\$26,400	0	\$26,400	Relocate outside of conflicting area	Highway widening	A	D	I
104	4041	U-25	SCE	Power	-	-	12 kV OH	Aster Ave. north side of NB I-405	Perpendicular	1157+00	-	No	Yes	Lump Sum	125	\$50,000	0	\$50,000	125	\$50,000	0	\$50,000	125	\$50,000	0	\$50,000	Relocate outside of conflicting area	Highway Widening	A	D	I
105	4050	U-27	SCG	Gas	√	-	10" HP WSP in 16" Csg	East of Seal Beach Blvd crossing I-405	Perpendicular	1187+00	-	No	Yes	Lump Sum	65	\$15,000	\$15,000	\$30,000	65	\$15,000	\$15,000	\$30,000	65	\$15,000	\$15,000	\$30,000	Extend encasement to ROW	Highway widening and potential impact by ramp improvements	A	D	H
106	4051	U-27	Verizon	Telephone	-	-	Cable in 18" Csg	East of Seal Beach Blvd crossing I-405	Perpendicular	1187+00	-	Yes	-	Lump Sum	65	\$500,000	0	\$500,000	65	\$500,000	0	\$500,000	65	\$500,000	0	\$500,000	Extend encasement to ROW	Highway widening and potential impact by ramp improvements	B	D	I
107	4052	U-27	Verizon	Telephone	-	-	Cable in 30" Csg	East of Seal Beach Blvd crossing I-405	Perpendicular	1187+00	-	Yes	-	Lump Sum	70	\$500,000	0	\$500,000	70	\$500,000	0	\$500,000	70	\$500,000	0	\$500,000	Extend encasement to ROW	Highway widening and potential impact by ramp improvements	B	D	I
108	4060	U-27	Qwest	Telephone	-	-	2" PVC	Along the west side of Seal Beach Blvd and crossing I-405	Perpendicular	1197+50	-	Yes	-	Lump Sum	75	\$60,000	0	\$60,000	75	\$60,000	0	\$60,000	75	\$60,000	0	\$60,000	Extend encasement to ROW	Highway widening and potential impact by ramp improvements	B	D	I
109	1181	U-27	Seal Beach	Water	-	-	12" AC	West of Seal Beach Blvd crossing I-405	Perpendicular	1204+00	-	Yes	-	Lump Sum	60	\$60,000	0	\$60,000	60	\$60,000	0	\$60,000	60	\$60,000	0	\$60,000	Extend encasement to ROW	Highway widening	C	E	I
110	2098	U-27	SCG	Gas	√	-	34" WSP	Along the north side of Lampson Ave on the north side of I-405	Perpendicular	1208+00	-	No	Yes	Lump Sum	60	\$15,000	\$15,000	\$30,000	60	\$15,000	\$15,000	\$30,000	60	\$15,000	\$15,000	\$30,000	Extend encasement to ROW	Highway widening	A	D	H
111	4068	U-27	SCE	Power	-	-	12 kV OH	Along I-405	Parallel	1209+50	1213+00	Yes	-	Lump Sum	265	\$50,000	0	\$50,000	265	\$50,000	0	\$50,000	265	\$50,000	0	\$50,000	Relocate outside of conflicting area	Wall construction	A	D	I
112	4277	U-27	Verizon	Communication	-	-	Fiber Optic	Along I-405	Parallel	1209+50	1213+00	Yes	-	\$440	300	\$132,000	0	\$132,000	300	\$132,000	0	\$132,000	300	\$132,000	0	\$132,000	Relocate outside of conflicting area	Wall construction	A	D	I
113	2097	U-27	Seal Beach	Sewer	-	-	8" VCP in 16" Csg	West of Seal Beach crossing I-405	Perpendicular	1210+00	-	Yes	-	\$330	320	\$105,600	0	\$105,600	320	\$105,600	0	\$105,600	320	\$105,600	0	\$105,600	Relocate outside of conflicting area	Highway widening and potential impact by ramp improvements and	A	D	I
114	4278	U-27	Verizon	Communication	-	-	Fiber Optic	North of I-405	Perpendicular	1212+00	-	Yes	-	\$440	105	\$46,200	0	\$46,200	105	\$46,200	0	\$46,200	105	\$46,200	0	\$46,200	Relocate outside of conflicting area	Wall construction	A	D	I
115	2001	U-27	SCE	Power	-	-	12 kV OH	Along Old Ranch Road on-ramp west of Seal Beach Blvd. and across I-405	Perpendicular	1212+50	-	No	No	Lump Sum	400	\$62,500	\$62,500	\$125,000	400	\$62,500	\$62,500	\$125,000	400	\$62,500	\$62,500	\$125,000	Relocate outside of conflicting area	Highway widening and potential impact by ramp improvements and	A	D	H

Total Cost=	\$22,002,750	\$13,381,600	\$35,384,350	\$24,206,650	\$13,556,600	\$37,763,250	\$24,206,650	\$13,586,600	\$37,793,250
Escalation	21.55%			21.55%			21.55%		
Escalated Cost	\$26,744,343			\$29,423,183			\$29,423,183		

UTILITY
U-46

BORDER LAST REVISED 7/2/2010

USERNAME => p0026525
DGN FILE => ALT 3 UTILITY PLAN Sheets.dgn

RELATIVE BORDER SCALE
IS IN INCHES

0 1 2 3

UNIT 2994

PROJECT NUMBER & PHASE

12000001800

LAST REVISION DATE PLOTTED => 11/9/2011
00-00-00 TIME PLOTTED => 10:59:39 AM

K3: Utility Protect in Place Matrix

I-405 EIR/EIS - Protect in Place Utility Report											
Conflict No.	U-Sheet No.	Utility Owner	Type	Caltrans High Risk	Caltrans Low Risk	Description	Location	Crossing	Station (Begin Station)	Station (End Station)	Disposition
1	1400	Costa Mesa	Water	-	-	36"	East of Bristol crossing I-405	Perpendicular	501+50	-	Protect in place
2	1398	Verizon	Telephone	-	-	4-4" duct	West of Bristol crossing I-405	Perpendicular	503+50	-	Protect in place
3	1110	Costa Mesa	Sewer	-	-	10"	West of Bristol crossing I-405	Perpendicular	510+50	-	Protect in place
4	1109	OCSD	Sewer	-	-	8"	East of Bear St Bridge crossing I-405	Perpendicular	521+50	-	Protect in place
5	1392	Costa Mesa	Water	-	-	16"	West of Bear St crossing I-405	Perpendicular	523+00	-	Protect in place
6	1393	Costa Mesa	Water	-	-	24"	In Bear St Bridge crossing I-405	Perpendicular	523+00	-	Protect in place
7	1394	Costa Mesa	Sewer	-	-	15"	In Bear St Bridge crossing I-405	Perpendicular	523+00	-	Protect in place
8	1128	Mesa Consolidated Water	Water	-	-	24"	West of Bear St crossing I-405	Perpendicular	523+50	-	Protect in place
9	2051	SCE	Power	-	-	12 kV UG	South of I-405 crossing SR-73	Parallel	537+50	545+50	Protect in place
10	1112	OCSD	Sewer	-	-	15"	West of SR-73 interchange crossing I-405	Perpendicular	549+00	-	Protect in place
11	1127	Mesa Consolidated Water	Water	-	-	12"	East of Fairview Rd crossing I-405	Perpendicular	569+00	-	Protect in place
12	1375	Verizon	Verizon	-	-	4-4" duct	In Fairview Rd bridge crossing I-405	Perpendicular	569+00	-	Protect in place
13	1374	Verizon	Verizon	-	-	4-4" duct	In Fairview Rd bridge crossing I-405	Perpendicular	570+00	-	Protect in place
14	1113	OCSD	Sewer	-	-	12"	West of Fairview Rd crossing I-405	Perpendicular	571+00	-	Protect in place
15	2052	SCE	Power	✓	-	12 kV UG	West of Fairview Rd crossing I-405	Perpendicular	571+50	-	Protect in place
16	2053	SCE	Power	✓	-	12 kV UG	West of Fairview Rd crossing I-405	Perpendicular	571+50	-	Protect in place
17	2055	SCE	Power	-	-	12 kV UG	West of Fairview Rd crossing I-405	Perpendicular	584+00	-	Protect in place
18	2056	SCE	Power	-	-	12 kV UG	West of Fairview Rd crossing I-405	Perpendicular	584+00	-	Protect in place
19	2057	SCE	Power	-	-	12 kV UG	West of Fairview Rd crossing I-405	Perpendicular	584+00	-	Protect in place
20	1365	Fountain Valley	Water	-	-	12"	West of Fairview Rd crossing I-405	Perpendicular	587+00	-	Protect in place
21	1364	Fountain Valley	Sewer	-	-	12"	West of Fairview Rd crossing I-405	Perpendicular	592+50	-	Protect in place

Dist

COUNTY

ROUTE

POST MILES TOTAL PROJECT

SHEET No.

TOTAL SHEETS

12,7

Orange, LA

22,73, 405,605

R0.5/R0.7,R0.7/R3.8
R21.2/R21.8,9.3/24.2
0.0/1.2,3.5/R1.6,R0.0/R1.2

REGISTERED CIVIL ENGINEER

DATE

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

PARSONS
2201 DUPONT DRIVE
SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863

REGISTERED PROFESSIONAL ENGINEER

No.

Exp.

CIVIL

STATE OF CALIFORNIA

UTILITY
U-47

I-405 EIR/EIS - Protect in Place Utility Report													
	Conflict No.	U-Sheet No.	Utility Owner	Type	Caltrans High Risk	Caltrans Low Risk	Description	Location	Crossing	Station (Begin Station)	Station (End Station)	Disposition	
	22	1114	U-6A	Costa Mesa	Sewer	-	-	12"	East of Harbor blvd crossing I-405	Perpendicular	593+00	-	Protect in place
	23	1362	U-6A	Fountain Valley	Sewer	-	-	12"	East of Harbor Blvd crossing I-405	Perpendicular	593+00	-	Protect in place
	24	1126	U-6A	Mesa Consolidated Water	Water	-	-	12"	East of Harbor Blvd crossing I-405	Perpendicular	595+50	-	Protect in place
	25	1124	U-6A	Mesa Consolidated Water	Water	-	-	24"	Along Harbor Blvd crossing I-405	Perpendicular	606+00	-	Protect in place
	26	4701	U-6A	Verizon	Telephone	-	-	4-4" duct	Along Harbor Blvd crossing I-405	Perpendicular	606+00	-	Protect in place
	27	1198	U-6A	SCG	Gas	√	-	8" WSP	Along Harbor Blvd crossing I-405	Perpendicular	606+00	-	Protect in place
	28	2062	U-6A	SCE	Power	√	-	12 kV UG	Along Harbor Blvd crossing I-405	Perpendicular	606+00	-	Protect in place
	29	2063	U-6A	SCE	Power	√	-	12 kV UG	Along Harbor Blvd crossing I-405	Perpendicular	606+00	-	Protect in place
	30	2064	U-6A	SCE	Power	√	-	12 kV UG	Along Harbor Blvd crossing I-405	Perpendicular	606+00	-	Protect in place
	31	1125	U-6A	Mesa Consolidated Water	Water	-	-	12"	Along Harbor Blvd crossing I-405	Perpendicular	606+50	-	Protect in place
	32	1209	U-6A	Westminster	Water	-	-	10" ACP	Along Harbor Blvd crossing I-405	Perpendicular	606+50	-	Protect in place
	33	1212	U-6A	TWC	CATV	-	-	Buried Cable	In Harbor Blvd underneath and across I-405	Perpendicular	606+50	-	Protect in place
	34	1213	U-6A	TWC	CATV	-	-	Buried Cable	In Harbor Blvd underneath and across I-405	Perpendicular	606+50	-	Protect in place
	35	1348	U-6A	SCE	Power	√	-	12 kV UG	West of Harbor crossing I-405	Perpendicular	608+50	-	Protect in place
	36	1115	U-2	CMSD	Sewer	-	-	60" RCP	East of Santa Ana River crossing I-405	Perpendicular	651+00	-	Protect in place
	37	2066	U-2	SCE	Power	-	-	66 kV OH	East of Euclid St. crossing I-405	Perpendicular	654+50	-	Protect in place
	38	2065	U-2	SCE	Power	-	-	66 kV OH	East of Santa Ana River crossing I-405	Perpendicular	655+00	-	Protect in place
	39	2067	U-2	SCE	Power	-	-	66 kV OH	East of Euclid St. crossing I-405	Perpendicular	655+00	-	Protect in place
	40	2068	U-2	SCE	Power	-	-	66kV OH	East of Euclid St. crossing I-405	Perpendicular	655+00	-	Protect in place
	41	2069	U-2	SCE	Power	-	-	66 kV OH	East of Euclid St. crossing I-405	Perpendicular	655+00	-	Protect in place
	42	2070	U-2	SCE	Power	-	-	66 kV OH	East of Euclid St. crossing I-405	Perpendicular	655+00	-	Protect in place

Dist

COUNTY

ROUTE

POST MILES TOTAL PROJECT

SHEET No.

TOTAL SHEETS

12,7

Oran,LA

22,73,405,605

R0.5/R0.7,R0.7/R3.8
R21.2/R21.8,9.3/24.2
0.0/1.2,3.5/R1.6,R0.0/R1.2

REGISTERED CIVIL ENGINEER

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PARSONS
2201 DUPONT DRIVE
SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863

REGISTERED PROFESSIONAL ENGINEER

No.

Exp.


CIVIL

STATE OF CALIFORNIA

UTILITY
U-48

I-405 EIR/EIS - Protect in Place Utility Report

	Conflict No.	U-Sheet No.	Utility Owner	Type	Caltrans High Risk	Caltrans Low Risk	Description	Location	Crossing	Station (Begin Station)	Station (End Station)	Disposition
123	1084	U-19	Westminster	Water	-	-	10" AC	West of Springdale crossing I-405	Perpendicular	1028+00	-	Protect in place
124	2013	U-19	SCE	Power	√	-	12kV OH	West of Springdale St crossing I-405	Perpendicular	1029+00	-	Protect in place
125	1132	U-20	Midway City Sanitation District	Sewer	-	-	10"	Between Springdale St and Bolsa Chica Rd crossing I-405	Perpendicular	1040+50	-	Protect in place
126	2141	U-21	Westminster	Sewer	-	-	10"	Between Springdale St and Bolsa Chica Rd crossing I-405	Perpendicular	1055+00	-	Protect in place
127	1203	U-21	SCG	Gas	-	√	5"	South of and along SB I-405	Parallel	1060+00	-	Protect in place
128	4003	U-37	SCG	Gas	-	√	3" LP GSP	South & along SR-22 east of the I-405	Parallel	1060+00	-	Protect in place
129	4000	U-37	SCE	Power	-	-	12 kV OH	South & along SR-22 east of the I-405	Parallel	1060+00	-	Protect in place
130	4001	U-37	Verizon	Telephone	-	-	Buried Cable	South along north side of Garden Grove Blvd.	Perpendicular	1060+00	-	Protect in place
131	4002	U-37	SCE	Power	-	-	12 kV OH	South along north side of Garden Grove Blvd.	Perpendicular	1060+00	-	Protect in place
132	4004	U-37	Westminster	Sewer	-	-	20" VCP (Aband)	South & along SR-22 east of the I-405	Perpendicular	1060+00	-	Protect in place
133	4005	U-37	Westminster	Sewer	-	-	6" CIP FM	South & along SR-22 east of the I-405	Perpendicular	1060+00	-	Protect in place
134	4006	U-37	Garden Grove	Sewer	-	-	12" CIP FM	North of SR-22 along channel	Perpendicular	1060+00	-	Protect in place
135	4007	U-21	SCE	Power	-	-	12 kV OH	Along the south side of Garden Grove Blvd. approaching the Garden Grove Blvd/SR-22 EB on & off ramps intersection	Perpendicular	1060+00	-	Protect in place
136	4009	U-37	Westminster	Water	-	-	8" ACP	South & across Garden Grove Blvd east of the Garden Grove Blvd/SR-22 EB on & off ramps intersection	Perpendicular	1078+00	-	Protect in place
137	4010	U-37	SCE	Power	√	-	12 kV UG	South & along SR-22 to private property east of the I-405	Perpendicular	1060+00	-	Protect in place
138	4011	U-37	SCE	Power	-	-	12 kV OH	Across SR-22 between Garden Grove Blvd. & the Valley View WB off-ramp	Perpendicular	1060+00	-	Protect in place
139	4012	U-37	Westminster	Water	-	-	8" ACP	South of SR-22 going from Garden Grove Blvd water line to private property east of the I-405	Perpendicular	1060+00	-	Protect in place
140	4014	U-37	SCE	Power	-	-	12 kV OH	Along the WB SR-22 off ramp to Valley View	Perpendicular	1060+00	-	Protect in place
141	4019	U-22	SCE	Power	√	-	12 kV OH	Along Bolsa Chica Rd	Perpendicular	1085+00	-	Protect in place
142	4017	U-22	Westminster	Water	-	-	12" AC	East of Bolsa Chica Rd crossing I-405	Perpendicular	1081+00	-	Protect in place

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora, LA	22, 73, 405, 605	RO.5/RO.7, RO.7/R3.8 R27.2/R27.9, 9.3/24.2 0.0/1.2, 3.5/R1.6, RO.0/R1.2		
<div style="display: flex; justify-content: space-between;"> <div>REGISTERED CIVIL ENGINEER _____</div> <div>DATE _____</div> </div> <div style="text-align: right; margin-top: 20px;">  </div> <div>PLANS APPROVAL DATE _____</div> <div style="margin-top: 20px;"> <p><i>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</i></p> </div>					
PARSONS 2201 DUPONT DRIVE SUITE 200 IRVINE, CA 92612			ORANGE COUNTY TRANSPORTATION AUTHORITY 550 SOUTH MAIN STREET ORANGE, CA 92863		

UTILITY

U-53

I-405 EIR/EIS - Protect in Place Utility Report												
	Conflict No.	U-Sheet No.	Utility Owner	Type	Caltrans High Risk	Caltrans Low Risk	Description	Location	Crossing	Station (Begin Station)	Station (End Station)	Disposition
143	4016	U-22	SCE	Power	-	-	12 kV OH	Along north of SR-22 east of the I-405	Parallel	1075+00	1098+00	Protect in place
144	4018	U-22	SCE	Power	√	-	12 kV UG	Conduit in Valley View St. bridge	Perpendicular	1085+00	-	Protect in place
145	2131	U-22	OCSD	Sewer	-	-	20" VCP (Aband)	-	Perpendicular	1089+50	-	No Action
146	4227	U-22	SCE	Power	-	-	OH Cable	Along the south of the W22-N405 Connector west of the OCFCD R-O-W	Parallel	1097+00	1128+00	Protect in place
147	4033	U-22	Seal Beach	Water	-	-	12" ACP	Along the west side of Old Bolsa Chica Rd.	Perpendicular	1097+50	-	Protect in place
148	4035	U-22	SCG	Gas	-	√	4" WSP	Along the west side of Old Bolsa Chica Rd.	Perpendicular	1097+50	-	Protect in place
149	4037	U-26	XO Comm	CATV	-	-	OH Cable	Along the south of the W22-N405 Connector west of the OCFCD R-O-W	Parallel	1098+50	1177+50	Protect in place
150	4038	U-22	Westminster	Sewer	-	-	20" VCP (Aband)	Between Bolsa Chica Rd and Seal Beach Blvd along south side of I-405	Parallel	1100+00	1203+50	Protect in place
151	4039	U-24	Seal Beach	Sewer	-	-	15" VCP	Along the north side W22-N405 Connector	Perpendicular	1115+00	-	Protect in place
152	4040	U-27	Verizon	Telephone	-	-	Buried Cable	Along the north side of Lampson Ave on the north side of I-405	Parallel	1117+50	1190+50	Protect in place
153	4047	U-26	TWC	CATV	-	-	Buried Cable	Along the north side of Lampson Ave on the north side of I-405	Parallel	1163+00	1187+00	Protect in place
154	4045	U-26	SCE	Power	√	-	12 kV UG	Along the north side of Lampson Ave on the north side of I-405	Parallel	1180+00	1190+50	Protect in place
155	4049	U-26	Seal Beach	Water	-	-	12" ACP	Along the south side of Lampson Ave.	Parallel	1163+00	1184+00	Protect in place
156	4048	U-27	Verizon	Telephone	-	-	OH Cable (Aband)	Along the south side of SB I-405 between Seal Beach Blvd and Bolsa Chica Rd	Perpendicular	1186+50	-	No Action
157	4054	U-27	Seal Beach	Sewer	-	-	22" VCP (Aband)	Between Bolsa Chica Rd and Seal Beach Blvd along south side of I-405	Perpendicular	1187+00	-	No Action
158	4276	U-27	Verizon	Communication	-	-	Fiber Optic	North of Old Ranch Parkway	Offset	1195+00	-	Protect in place
159	4056	U-27	TWC	CATV	-	-	Buried Cable	Across I-405	Perpendicular	1195+50	-	Protect in place
160	4057	U-27	TWC	CATV	-	-	Buried Cable	Under Seal Beach Blvd crossing I-405	Perpendicular	1196+50	-	Protect in place
161	4058	U-27	SCG	Gas	-	√	2" PEM	Along Seal Beach Blvd	Perpendicular	1196+50	-	Protect in place
162	4059	U-27	Verizon	Telephone	-	-	Conduit	On Seal Beach Blvd	Perpendicular	1196+50	-	Protect in place

Dist

COUNTY

ROUTE

POST MILES TOTAL PROJECT

SHEET No.

TOTAL SHEETS

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Orange, LA

22,73, 405,605

R0.5/R0.7,R0.7/R3.8
R21.2/R21.8,9.3/24.2
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550 SOUTH MAIN STREET
ORANGE, CA 92863

REGISTERED PROFESSIONAL ENGINEER

No.

Exp.

CIVIL

STATE OF CALIFORNIA

UTILITY
U-54

